

State of California  
The Resources Agency  
DEPARTMENT OF FISH AND GAME  
Wildlife and Habitat Data Analysis Branch  
Natural Diversity Data Base

**SPECIAL ANIMALS**

June 1999

The Natural Diversity Data Base (NDDB) is a continually refined and updated, computerized inventory of location information on the more rare animals, plants, and natural communities in California. The blueprint used to set up the NDDB was developed by The Nature Conservancy (TNC) in the early 1970's. TNC has helped to set up similar programs in all 50 states and a number of foreign countries. Collectively these programs are known as the Natural Heritage Network. The "Heritage Methodology" used by all of these programs, sets the standards on the information we gather and the procedures we use. More information on the Natural Heritage Network is available on their Web site: [http://www.heritage.tnc.org/nhp/overview\\_nhp.html](http://www.heritage.tnc.org/nhp/overview_nhp.html).

"Special Animals" is a general term that refers to all of the taxa the NDDB is interested in tracking, regardless of their legal or protection status. These taxa generally fall into one or more of the following categories:

- Officially listed or proposed for listing under the State and/or Federal Endangered Species Acts
- State or Federal candidate for possible listing
- Taxa which meet the criteria for listing, even if not currently included on any list, as described in Section 15380 of the CEQA Guidelines (more information on CEQA is available on the internet at: [http://ceres.ca.gov/topic/env\\_law/ceqa/guidelines/](http://ceres.ca.gov/topic/env_law/ceqa/guidelines/))
- Taxa considered by the Department to be a Species of Special Concern
- Taxa that are biologically rare, very restricted in distribution, declining throughout their range, or have a critical, vulnerable stage in their life cycle that warrants monitoring
- Populations in California that may be on the periphery of a taxon's range, but are threatened with extirpation in California
- Taxa closely associated with a habitat that is declining in California at an alarming rate (e.g., wetlands, riparian, old growth forests, desert aquatic systems, native grasslands, vernal pools, etc.)
- Taxa designated as a special status, sensitive, or declining species by other state or federal agencies, or non-governmental organization (NGO)

For most animal taxa, the NDDB is interested in sightings that indicate the presence of a **resident** population. For many birds, however, the NDDB tracks only nesting locations, (those species are so indicated on the list). It is not necessary to actually locate the nest to confirm breeding status. Any indication of breeding (territorial males, adults carrying nest material, adults carrying food, the presence of newly fledged young, etc.) is acceptable evidence of nesting. For other taxa where we track only a certain part of their range or life history, the area or life stage is indicated on the list.

Taxa marked with a "+" to the left of the scientific name are those for which there is location information in the NDDB Geographic Information System (GIS), as of the date of this list.

**NDDB RANKS:**

The NDDB ranking codes are part of the "Heritage Methodology". It is a shorthand formula that provides information on how rare a taxa is, both throughout its range and within California. We use the best information available to assign these ranks and they are changed as new information becomes available. More detailed information on our ranks can be found in Appendix 1.

**STATE LISTING CODES:** The listing status of each species is current as of the date of this list. The most current changes in listing status will be found in the list of "Endangered and Threatened Animals of California", which the NDDB updates and prints quarterly (January, April, July, & October).

SE State-listed as Endangered  
ST State-listed as Threatened  
SCE State candidate for listing as Endangered  
SCT State candidate for listing as Threatened

**FEDERAL LISTING CODES:** The listing status is current as of the date of this list. The most current changes in listing status will be found in the list of "Endangered and Threatened Animals of California", which the NDDB updates and prints quarterly (January, April, July, & October).

FE Federally listed as Endangered  
FT Federally listed as Threatened  
FPE Federally proposed for listing as Endangered  
FPT Federally proposed for listing as Threatened  
FPD Federally proposed for delisting  
FC Federal candidate species (former Category 1 candidates)  
FSC Federal Special Concern species (a "term-of-art" for former Category 2 candidates) (more information is available on their Web site at: <http://www.fws.gov/r9endspp/norqa.html>)

#### **IUCN CODES:**

The World Conservation Union (formerly the International Union for the Conservation of Nature) is the world's largest conservation organization with over 900 governmental and non-governmental members from 138 countries. The IUCN is a storehouse of information and expertise, and as such, it advises and assists governments, organizations and local communities in developing and implementing conservation strategies. The Species Survival Commission, one of six global commissions within IUCN, has been publishing the "Red List of Threatened Species" for over 30 years. The Red List contains a roster of species that have been assessed against strict criteria. Detailed information on the IUCN codes can be found in Appendix 2. Additional information is available on their Web site at: [http://www.iucn.org/info\\_and\\_news/about\\_iucn/index.html](http://www.iucn.org/info_and_news/about_iucn/index.html).

#### **OTHER CODES:**

**Audubon: Cal WL:** The Audubon Society's state WatchList for California. The state WatchLists were developed using the Partners in Flight (PIF) data and prioritization process. The state lists are an additional tool designed to help conserve local bird populations. More information is available on their Web site at: <http://www.audubon.org/bird/watch/state2/ca.html>.

**CDF: Sensitive:** California Department of Forestry and Fire Protection: The Board of Forestry classifies as "sensitive species" those species that warrant special protection during timber operations. The list of "sensitive species" is given in §895.1 (Definitions) of the California Forest Practice Rules. The Forest Practice Rules are available on CDF's Web site at: <http://www.fire.ca.gov/resmgmt/>

**DFG: CSC:** California Special Concern species: It is the goal and responsibility of the Department of Fish and Game to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long term viability. Not all "Species of Special Concern have declined equally; some

species may be just starting to decline, while others may have already reached the point where they meet the criteria for listing as a "Threatened" or "Endangered" species under the State and/or Federal Endangered Species Acts. More information on the Department's species of special concern reports can be found in Appendix 3.

**DFG: Fully protected and Protected:** Fully protected and Protected species may not be taken or possessed without a permit from the Fish and Game Commission and/or the Department of Fish and Game. Information on Fully protected species can be found in the Fish and Game Code, (birds at §3511, mammals at §4700, reptiles and amphibians at §5050, and fish at §5515). Information on Fully Protected fish can be found in the California Code of Regulations, Title 14, Division 1, Chapter 2, Article 4, §5.93. Information on Protected native amphibians can be found in Chapter 5, §41 and Protected native reptiles at §42. The Fish and Game Code is available on the internet at: <http://www.leginfo.ca.gov/calaw.html>. Title 14 is available on the internet at: <http://www.dfg.ca.gov/Title/contents.html>.

**FS: Sensitive:** The Forest Service participates in recovery programs with the California Department of Fish and Game and the U.S. Fish and Wildlife Service to restore declining populations and protect habitats. A Forest Service "Sensitive Species" program identifies and manages species whose populations are declining. More information is available on their Web site at: <http://www.r5.pswfs.gov/robrieffings/factsheets/tespecies.html>.

**FWS: MNBMC:** Fish and Wildlife Service: Migratory Nongame Birds of Management Concern: Species of migratory nongame birds that are considered to be of concern in the United States because of (1) documented or apparent population declines, (2) small or restricted populations, or (3) dependence on restricted or vulnerable habitats. More information is available on their Web site at: <http://www.fws.gov/r9mbmo/reports/specccon/tblconts.html>.

**PIF: WatchList:** The WatchList is compiled by Partners in Flight, a coalition of state, federal, and private sector organizations working together to protect the birds of the western hemisphere. The WatchList identifies North American bird species in need of help. WatchList species are those faced with population decline, limited geographic range, and/or threats such as habitat loss on their breeding and wintering grounds. The WatchList is an early warning system that focuses attention on at-risk bird species before they become endangered. Saving species pushed to the edge of extinction is difficult, costly and politically charged. The WatchList shifts the agenda from reactive, last-minute rescue attempts to preventive action. More information on the WatchList and the PIF prioritization process can be found on their Web site at: <http://www.audubon.org.bird/watch/>.

#### OTHER DATABASES

In addition to the NDDB, the Department of Fish and Game maintains other databases which may be of interest to NDDB users. Some of these databases are listed in appendix 4.

## INVERTEBRATES

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>PELECYPODA (clams and mussels)</b>					
<i>Anodonta californiensis</i> California floater (mussel)	G?S2?		FSC		FS: Sensitive
<i>Pisidium ultramontanum</i> Fingernail clam	G1S1		FSC		FS: Sensitive
<b>GASTROPODA (snails and slugs)</b>					
<i>Haliotis sorenseni</i> White abalone	G1S1		FC		
<i>Algamorda newcombiana</i> Newcomb's littorine snail	G1G2S1S2		FSC		
+ <i>Ammonitella yatesi</i> Tight coin (=Yates' snail)	G1S1		FSC	VU/D2	
+ <i>Assimineia infima</i> Badwater snail	G1S1		FSC	VU/B1+2c	
+ <i>Binneya notabilis</i> Santa Barbara shelled slug (=slug snail)	G1S1		FSC	DD	
<i>Discus shemeki cockerelli</i> Cockerell's striate disc (snail)	G?T?S?		FSC		
+ <i>Eremarionta</i> (=Micrarionta) <i>immaculata</i> White desert snail	G1S1		FSC	VU/D2	
<i>Eremarionta</i> (=Micrarionta) <i>millepalmarum</i> Thousand Palms desert snail	G?S?		FSC	VU/D2	
+ <i>Eremarionta</i> (=Micrarionta) <i>morongoana</i> Morongo (=Colorado) desert snail	G1G3S1		FSC	LRnt	
+ <i>Eremarionta</i> (=Micrarionta) <i>rowelli bakerensis</i> Baker desert snail	G1T1S1		FSC	DD	
+ <i>Eremarionta</i> (=Micrarionta) <i>rowelli mccoiana</i> California McCoy snail (=McCoy desert snail)	G1T1S1		FSC	DD	
+ <i>Fontelicella</i> sp. Deep Springs Fontelicella	G1S1				
+ <i>Haplotrema catalinense</i> Santa Catalina lancetooth	G1S1				
+ <i>Haplotrema durantii</i> Durant's snail	G2G3S2S3				
+ <i>Helminthoglypta allynsmithi</i> Merced Canyon shoulderband (snail)	G1S1		FSC	VU/D2	
+ <i>Helminthoglypta arrosa pomoensis</i> Pomo bronze shoulderband (snail)	G2T1S1		FSC	DD	
+ <i>Helminthoglypta arrosa williamsi</i> Williams' bronze shoulderband (snail)	G2T1S1		FSC		
+ <i>Helminthoglypta ayresiana sanctaerucis</i> Ayer's snail	G1G2S1S2				
+ <i>Helminthoglypta callistoderma</i> Kern shoulderband (snail)	G1S1		FSC	EN/B1+2c	

	<u>NDDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Helminthoglypta coelata</i> Mesa shoulderband	G?S?			VU/B1+2c	
+ <i>Helminthoglypta mohaveana</i> Victorville shoulderband (snail)	G1S1		FSC	LRnt	
+ <i>Helminthoglypta nickliniana awania</i> Peninsula Coast Range shoulderband (snail) (=Nicklin's peninsula snail)	G1T1S1		FSC	DD	
+ <i>Helminthoglypta nickliniana bridgesi</i> Bridges' Coast Range shoulderband (snail)	G2T1S1		FSC	DD	
+ <i>Helminthoglypta sequoicola consors</i> Redwood shoulderband (snail)	G1G2T1S1		FSC	DD	
+ <i>Helminthoglypta traski coelata</i> Peninsular Range shoulderband (snail)	G1G2T1S1		FSC		
+ <i>Helminthoglypta walkeriana</i> Morro shoulderband (snail)	G1S1		FE	CR/A1ce, B1+2bc	
+ <i>Micrarionta facta</i> Santa Barbara islandsnail	G1G2S1S2		FSC	VU/D2	
+ <i>Micrarionta feralis</i> San Nicolas islandsnail	G1S1		FSC	CR/B1+2d	
+ <i>Micrarionta gabbi</i> San Clemente islandsnail	G1S1		FSC	DD	
+ <i>Micrarionta opuntia</i> Pricklypear islandsnail	G1S1		FSC	VU/D2	
+ <i>Monadenia circumcarinata</i> Keeled sideband (snail)	G1S1		FSC	VU/D2	
+ <i>Monadenia fidelis pronotis</i> Rocky coast Pacific sideband (snail) (=Rocky coast sideband)	G1S1		FSC	DD	
+ <i>Monadenia hillebrandi yosemitensis</i> Yosemite mariposa sideband (snail)	G1T1S1		FSC		
+ <i>Monadenia mormonum buttoni</i> Button's Sierra sideband (snail)	G1G2T1S1		FSC	DD	
+ <i>Monadenia mormonum hirsuta</i> Hirsute Sierra sideband (snail)	G1G2T1S1		FSC	DD	
+ <i>Monadenia setosa</i> Trinity bristle snail	G2S2	ST	FSC	VU/D2	
+ <i>Monadenia troglodytes</i> Shasta sideband (snail)	G2S2		FSC	DD	
+ <i>Monadenia tuolumneana</i> Tuolumne sideband (snail)	G1S1				
+ <i>Pristiloma shepardae</i> Shepard's snail	G1S1				
+ <i>Pyrgulopsis aardahli</i> Benton Valley (=Aahrdahl's) springsnail	G1S1		FSC		
+ <i>Pyrgulopsis owensensis</i> Owens Valley springsnail	G1G2S1S2		FSC		FS: Sensitive
+ <i>Pyrgulopsis perturbata</i> Fish Slough springsnail	G1G2S1S2		FSC		
+ <i>Pyrgulopsis wongi</i> Wong's springsnail	G1G2S1S2		FSC		FS: Sensitive

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+ <i>Radiocentrum</i> (=Oreohelix) <i>avalonense</i> Catalina mountainsnail	G1S1		FSC	CR/B1+2c	
+ <i>Sterkia clementina</i> San Clemente Island blunt-top snail	G1S1			LRnt	
+ <i>Tryonia imitator</i> Mimic Tryonia (=California brackishwater snail)	G2G3S2S3		FSC	DD	
<i>Tryonia margae</i> Grapevine Springs elongate tryonia	G?S?		FSC		
<i>Tryonia robusta</i> Robust tryonia	G?S?		FSC		
<i>Tryonia rowlandsi</i> Grapevine Springs squat tryonia	G?S?		FSC		
<i>Valvata virens</i> Emerald Valvata	GX?SX?		FSC	VU/A1ce	
+ <i>Vespericola karokorum</i> Karok hesperian (=Karok Indian snail)	G2G3S2S3		FSC	DD	
+ <i>Xerarionta intercisa</i> Horseshoe snail (=Plain cactusnail)	G1S1			VU/D2	
+ <i>Xerarionta redimita</i> Wreathed cactusnail	G1S1			VU/D2	
<i>Xerarionta tryoni</i> Bicolor cactusnail	G1S1			VU/D2	

#### ARACHNIDA (spiders and relatives)

<i>Aphrastochthonius grubbsi</i> Grubbs' Cave pseudoscorpion	G?S?		FSC		
<i>Aphrastochthonius similis</i> Carlow's Cave pseudoscorpion	G?S?		FSC		
<i>Archeolarca aalbui</i> Aalbu's Cave pseudoscorpion	G?S?		FSC		
+ <i>Banksula melones</i> Melones Cave harvestman	G2S2			VU/A2c	
+ <i>Calicina</i> (=Sitalcina) <i>minor</i> Edgewood blind harvestman	G1S1		FSC		
+ <i>Fissilicreagris</i> (=Microcreagris) <i>imperialis</i> Empire Cave pseudoscorpion	G1S1		FSC	VU/D2	
<i>Larca laceyi</i> Lacey's Cave pseudoscorpion	G?S?		FSC		
+ <i>Meta dolloff</i> Dolloff Cave spider	G1S1		FSC	VU/D2	
<i>Microcina edgewoodensis</i> Edgewood Park micro-blind harvestman	G?S?		FSC		
<i>Microcina homi</i> Hom's micro-blind harvestman	G?S?		FSC		
<i>Microcina jungi</i> Jung's micro-blind harvestman	G?S?		FSC		
<i>Microcina leei</i> Lee's micro-blind harvestman	G?S?		FSC		

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<i>Microcina lumi</i> Fairmont (=Lum's) micro-blind harvestman	G?S?		FSC		
+ <i>Microcina tiburona</i> Tiburon micro-blind harvestman	G1S1		FSC		
<i>Pauroctonus maritimus</i> Monterey Dunes scorpion	G?S?		FSC		
<i>Pseudogarypus orpheus</i> Music Hall Cave pseudoscorpion	G?S?		FSC		
<i>Telema</i> sp. Santa Cruz telemid spider	G1S1		FSC		
+ <i>Trithyreus shoshonensis</i> Shoshone Cave whip-scorpion	G1S1				
<b>CRUSTACEA, Order Anostraca (fairy shrimp)</b>					
+ <i>Artemia monica</i> Mono brine shrimp	G1S1			LRcd	
+ <i>Branchinecta conservatio</i> Conservancy fairy shrimp	G1S1		FE	EN/A2c	
+ <i>Branchinecta longiantenna</i> Longhorn fairy shrimp	G1S1		FE	EN/A2c	
+ <i>Branchinecta lynchi</i> Vernal pool fairy shrimp	G2G3S2S3		FT	VU/A2c	
+ <i>Branchinecta sandiegonensis</i> San Diego fairy shrimp	G1S1		FE	EN/A2c	
+ <i>Lepidurus packardii</i> Vernal pool tadpole shrimp	G2G3S2S3		FE	EN/A2c	
+ <i>Linderiella occidentalis</i> California linderiella	G2G3S2S3			LRnt	
+ <i>Streptocephalus woottoni</i> Riverside fairy shrimp	G1S1		FE	EN/A2c	
<b>CRUSTACEA, Order Isopoda (isopods)</b>					
+ <i>Caecidotea tomalensis</i> Tomales isopod	G2S2		FSC		
<b>CRUSTACEA, Order Amphipoda (amphipods)</b>					
+ <i>Stygobromus gradyi</i> Grady's Cave amphipod	G1S1		FSC	VU/D2	
+ <i>Stygobromus harai</i> Hara's Cave amphipod	G1S1		FSC	VU/D2	
+ <i>Stygobromus mackenziei</i> MacKenzie's Cave amphipod	G1S1		FSC	VU/D2	
+ <i>Stygobromus wengerorum</i> Wengerors' Cave amphipod	G1S1		FSC	VU/D2	

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<b>CRUSTACEA, Order Decapoda (crayfish and shrimp)</b>					
+ <i>Pacifastacus fortis</i> Shasta crayfish	G1S1	SE	FE	CR/B1+2c	
+ <i>Syncaris pacifica</i> California freshwater shrimp	G1S1	SE	FE	EN/A1ce	
<b>INSECTA, Order Plecoptera (stoneflies)</b>					
+ <i>Capnia lacustra</i> Lake Tahoe benthic stonefly	G1S1		FSC		
<i>Megaleuctra sierra</i> Shirttail Creek stonefly	G?S?		FSC		
<b>INSECTA, Order Orthoptera (grasshoppers, katydids, and crickets)</b>					
+ <i>Ammopelmatus kelsoensis</i> Kelso Jerusalem cricket	G1G3S1S2		FSC	VU/B1+2bd	
<i>Ammopelmatus muwu</i> Point Conception Jerusalem cricket	G1G3S1S3		FSC	VU/B1+2bd	
<i>Idiostatus kathleenae</i> Pinnacles shieldback katydid	G1G3S1S3		FSC		
+ <i>Idiostatus middlekaufi</i> Middlekauf's shieldback katydid	G1G2S1		FSC	CR/B1+2bd	
+ <i>Macrobaenetes kelsoensis</i> Kelso giant sand treader cricket	G1S1		FSC	VU/B1+2bd	
+ <i>Macrobaenetes valgum</i> Coachella giant sand treader cricket	G1G2S1S2		FSC	VU/B1+2bd	
+ <i>Neduba longipennis</i> Santa Monica shieldback katydid	G1G2S1S2		FSC	CR/B1+2bd	
<i>Pristoceuthophilus</i> sp. Samwell Cave cricket	G1G3S1S3		FSC	VU/D1+2	
+ <i>Psychomastix deserticola</i> Desert monkey grasshopper	G1G3S1S2		FSC	VU/B1+2bd	
+ <i>Stenopelmatus cahuilaensis</i> Coachella Valley Jerusalem cricket	G1G2S1S2		FSC	VU/B1+2bd	
+ <i>Tetrix sierrana</i> Sierra pygmy grasshopper	G1G2S1S2		FSC	VU/D2	
<i>Trimerotropis infantilis</i> Zayante band-winged grasshopper	G1S1		FE	EN/A1c	
<b>INSECTA, Order Hemiptera (true bugs)</b>					
<i>Ambrysus funebris</i> (No common name)	G?S?		FSC		
+ <i>Belostoma saratogae</i> Saratoga Springs belostoman bug	G1S1		FSC		
+ <i>Oravelia pege</i> Dry Creek cliff strider bug	G1S1		FSC		



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+ <i>Pelocoris shoshone</i> Amargosa naucorid bug	G1G3S1S2		FSC		
+ <i>Saldula usingeri</i> Wilbur Springs shorebug	G1S1				
<b>INSECTA, Order Neuroptera (lacewings)</b>					
<i>Nothochrysa californica</i> San Francisco lacewing	G?S?		FSC		
+ <i>Oliarces clara</i> Cheeseweed moth lacewing	G1G3S1S3		FSC		
<b>INSECTA, Order Coleoptera (beetles)</b>					
+ <i>Aegialia concinna</i> Ciervo aegialian scarab beetle	G1S1			VU/D2	
+ <i>Agabus rumppi</i> Death Valley agabus diving beetle	G1G3S1		FSC		
+ <i>Anomala carlsoni</i> Carlson's dune beetle	G2S2				
+ <i>Anomala hardyorum</i> Hardy's dune beetle	G2S2				
+ <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	GXSX		FSC		
+ <i>Anthicus sacramento</i> Sacramento anthicid beetle	G1S1		FSC	EN/B1+2c	
<i>Atractelmis wawona</i> Wawona riffle beetle	G1G3S1S3		FSC		
+ <i>Chaetarthria leechi</i> Leech's chaetarthrian water scavenger beetle	G1?S1?		FSC		
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	G?S?		FSC		
+ <i>Cicindela hirticollis gravida</i> Sandy beach tiger beetle	G5T4S1		FSC		
+ <i>Cicindela latesignata obliviosa</i> Oblivious tiger beetle	G3TXSX		FSC		
<i>Cicindela ohlone</i> Ohlone tiger beetle	G1S1		FSC		
<i>Cicindela tranquebarica viridissima</i> Greenest tiger beetle	G5T2QS1		FSC		
<i>Cicindela tranquebarica</i> ssp. San Joaquin tiger beetle	G5TXSX		FSC		
+ <i>Coelus globosus</i> Globose dune beetle	G1S1		FSC	VU/A1c	
+ <i>Coelus gracilis</i> San Joaquin dune beetle	G1S1		FSC	VU/A1c, D2	
<i>Coelus pacificus</i> Channel Islands dune beetle	G?S?		FSC		
<i>Coenonycha clementia</i> San Clemente Island coenonycha beetle	G1?S1?		FSC		

	<u>NDDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	G3T2S2		FT		
<i>Dubiraphia brunnescens</i> Brownish dubiraphian riffle beetle	G1G3S1S3		FSC		
<i>Dubiraphia giulianii</i> Giuliani's dubiraphian riffle beetle	G1G3S1S3		FSC		
+ <i>Elaphrus viridis</i> Delta green ground beetle	G1S1		FT	CR/B1+2abc+3a	
<i>Glaresis arenata</i> Kelso Dune glaresis scarab beetle	G1G3S1S3		FSC		
+ <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	G1G2S1S2		FSC		
<i>Hydroporus hirsutus</i> Woolly hydroporus diving beetle	G1G3S1S3		FSC		
<i>Hydroporus leechi</i> Leech's skyline diving beetle	G1?S1?		FSC		
+ <i>Hydroporus simplex</i> Simple hydroporus diving beetle	G1?S1?		FSC		
+ <i>Hygrotus curvipes</i> Curved-foot hygrotus diving beetle	G1S1		FSC		
+ <i>Hygrotus fontinalis</i> Travertine band-thigh diving beetle	G1S1		FSC		
+ <i>Lichnanthe albipilosa</i> White sand bear scarab beetle	G1S1		FSC		
+ <i>Lichnanthe ursina</i> Bumblebee scarab beetle	G2S2		FSC		
+ <i>Lytta hoppingi</i> Hopping's blister beetle	G1G2S1S2		FSC		
<i>Lytta insperata</i> Mojave Desert blister beetle	G1G2S1S2		FSC		
+ <i>Lytta moesta</i> Moestan blister beetle	G2S2		FSC		
+ <i>Lytta molesta</i> Molestan blister beetle	G2S2		FSC		
+ <i>Lytta morrisoni</i> Morrison's blister beetle	G1G2S1S2		FSC		
<i>Microcylleopus fomicoides</i> (No common name)	G?S?		FSC		
<i>Microcylleopus similis</i> (No common name)	G?S?		FSC		
<i>Miloderes nelsoni</i> Nelson's miloderes weevil	G1G3S1S3		FSC		
<i>Nebria darlingtoni</i> South Forks ground beetle	G?S?		FSC		
<i>Nebria gebleri siskiyouensis</i> Siskiyou ground beetle	G?T?S?		FSC		
<i>Nebria sahlbergii triad</i> Trinity Alps ground beetle	G?T?S?		FSC		
<i>Necydalis rudei</i> Rude's longhorn beetle	G1G3S1S3		FSC		

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Ochthebius crassalus</i> Wing-shoulder minute moss beetle	G1G3S1S3		FSC		
+ <i>Ochthebius reticulatus</i> Wilbur Springs minute moss beetle	G1S1		FSC		
+ <i>Onychobaris langei</i> Lange's El Segundo dune weevil	G1S1		FSC		
+ <i>Optioservus canus</i> Pinnacles optioservus riffle beetle	G1S1		FSC		
<i>Paleoxenus dohrni</i> Dohrn's elegant eucnemid beetle	GHSH		FSC		
+ <i>Polyphylla anteronivea</i> Saline Valley snow-front June beetle	G1S1		FSC		
+ <i>Polyphylla barbata</i> Mount Hermon (=barbate) June beetle	G1S1		FE		
+ <i>Polyphylla erratica</i> Death Valley June beetle	G1S1		FSC		
+ <i>Polyphylla nubila</i> Atascadero June beetle	G1S1		FSC		
<i>Polyphylla stellata</i> Delta June beetle	G?S?		FSC		
+ <i>Pseudocotalpa andrewsi</i> Andrew's dune scarab (beetle)	G2G3S2S3		FSC		
<i>Scaphinotus behrensi</i> (Ground beetle, no common name)	G?S?		FSC		
<i>Scaphinotus longiceps</i> Humboldt ground beetle	G?S?		FSC		
<i>Trigonoscuta blaisdelli</i> Blaisdell trigonoscute weevil	G?S?		FSC		
<i>Trigonoscuta brunnotasselata</i> Brown-tassel trigonoscute weevil	G1G2S1S2		FSC		
<i>Trigonoscuta catalina</i> Santa Catalina Island trigonoscute weevil	G?S?		FSC		
+ <i>Trigonoscuta dorothea dorothea</i> Dorothy's El Segundo dune weevil	G1T1S1		FSC		
<i>Trigonoscuta stantoni</i> Santa Cruz Island shore weevil	G1?S1?		FSC		
<i>Trigonoscuta</i> sp. Doyen's trigonoscute dune weevil	G1S1		FSC		
<b>INSECTA, Order Mecoptera (scorpionflies)</b>					
<i>Orbittacus obscurus</i> Gold rush hanging fly	G?S?		FSC		
<b>INSECTA, Order Diptera (flies)</b>					
<i>Ablautus schlingeri</i> Oso Flaco robberfly	G?S?		FSC		
+ <i>Brennania belkini</i> Belkin's dune tabanid fly	G1G2S1S2			VU/A2ce	

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Cophura hurdi</i>	GXSX		FSC		
Antioch cophuran robberfly					
+ <i>Efferia antiochi</i>	G1G3S1S3		FSC		
Antioch efferian robberfly					
<i>Metapogon hurdi</i>	G1G3S1S3		FSC		
Hurd's metapogon robberfly					
+ <i>Paracoenia calida</i>	G1S1		FSC		
Wilbur Springs shore fly					
+ <i>Rhaphiomidas terminatus abdominalis</i>	G1T1S1		FE		
Delhi Sands flower-loving fly					

**INSECTA, Order Lepidoptera (butterflies and moths)**

<i>Adela oplerella</i>	G?S?		FSC		
Opler's longhorn moth					
+ <i>Apodemia mormo langei</i>	G5T1S1		FE		
Lange's metalmark butterfly					
<i>Areniscythis brachypteris</i>	G?S?		FSC		
Oso Flaco flightless moth					
<i>Carolella busckana</i>	G1G3S1S3		FSC		
Busck's gall moth					
<i>Carterocephalus palaemon</i> ssp.	G?T?S?		FSC		
Sonoma arctic skipper					
<i>Cercyonis pegala</i>	G4S4		FSC		
Carson Valley wood nymph butterfly					
<i>Coenonympha tullia yontockett</i>	G?T?S?		FSC		
Yontocket satyr butterfly					
+ <i>Danaus plexippus</i> (wintering sites)	G5S3				
Monarch butterfly					
+ <i>Euchloe hyantis andrewsi</i>	G5T2?S1		FSC		
Andrew's marble butterfly					
+ <i>Eucosma hennei</i>	G1S1		FSC		
Henne's eucosman moth					
+ <i>Euphilotes battoides allyni</i>	G5T1S1		FE		
El Segundo blue butterfly					
<i>Euphilotes battoides comstocki</i>	G5T1T3S1S3				
Comstock's blue butterfly					
+ <i>Euphilotes enoptes smithi</i>	G5T2S2		FE		
Smith's blue butterfly					
+ <i>Euphydryas editha bayensis</i>	G5T2S2		FT		
Bay checkerspot butterfly					
<i>Euphydryas editha monoensis</i>	G5T3?S1S3		FSC		
Mono checkerspot butterfly					
+ <i>Euphydryas editha quino</i>	G5T1S1		FE		
Quino checkerspot butterfly					
<i>Euphyes vestris harbisoni</i>	G5T1?S1?		FSC		
Dun skipper					
+ <i>Euproserpinus euterpe</i>	G1S1		FT		
Kern primrose sphinx moth					

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Glaucopsyche lygdamus palosverdesensis</i>	G5T1S1		FE		
Palos Verdes blue butterfly					
<i>Hesperia mirimae</i> ssp.	G?T?S?		FSC		
White Mountains skipper					
<i>Hesperopsis graciellae</i>	G?S?		FSC		
MacNeill sooty wing skipper					
+ <i>Icaricia icarioides missionensis</i>	G5T2S2		FE		
Mission blue butterfly					
<i>Icaricia icarioides moroensis</i>	G5T1T3S1S3		FSC		
Morro Bay blue butterfly					
<i>Icaricia icarioides</i> ssp.	G?T?S?		FSC		
Point Reyes blue butterfly					
+ <i>Incisalia mossii bayensis</i>	G4T1S1		FE		
San Bruno elfin butterfly					
<i>Incisalia mossii</i> ("hikupa") ssp.1	G4T?S?		FSC		
San Gabriel Mountains elfin butterfly					
<i>Incisalia mossii</i> ssp.2	G4T?S?		FSC		
Marin elfin butterfly					
+ <i>Lycaeides argyrognomon lotis</i>	G5T1S1		FE		
Lotis blue butterfly					
<i>Lycaena hermes</i>	G3?S2?		FSC	VU/D2	
Hermes copper butterfly					
<i>Lycaena rubicus</i> ssp.	G?T?S?		FSC		
White Mountains copper butterfly					
<i>Mitoura thornei</i>	G1QS1		FSC		
Thorne's hairstreak butterfly					
+ <i>Panoquina errans</i>	G2G3S1		FSC	LRnt	
Wandering (=Saltmarsh) skipper					
+ <i>Philotiella speciosa bohartorum</i>	G4T1T3S1		FSC		
Bohart's blue butterfly					
<i>Plebulina emigdionis</i>	G3G4S3S4		FSC		
San Emigdio blue butterfly					
<i>Plebejus icarioides</i> ssp.1	G?T?S?		FSC		
White Mountains icarioides blue butterfly					
<i>Plebejus icarioides</i> ssp.2	G?T?S?		FSC		
Spring Mountains icarioides blue butterfly					
<i>Plebejus saepiolus</i> ssp.1	G5T?S?		FSC		
White Mountains saepiolus blue butterfly					
<i>Plebejus saepiolus</i> ssp.2	G5T?S?		FSC		
San Gabriel Mountains blue butterfly					
<i>Polites mardon</i>	G2S1S2		FSC		
Mardon skipper					
<i>Polites sabuleti albomontana</i>	G?T?S?		FSC		
White Mountains sandhill skipper					
<i>Psammobotys fordii</i>	G?S?		FSC		
Ford's sand dune moth					
<i>Pseudocopaeodes eunus eunus</i>	G3G4T1T3S1S3		FSC		
Alkali (=wandering) skipper					
<i>Pyrgus ruralis lagunae</i>	G3?T1S1		FE		
Laguna Mountains skipper					

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Satyrium auretorum fumosum</i> Santa Monica Mountains hairstreak butterfly	G?T?S?		FSC		
<i>Speyeria adaste adaste</i> Unsilvered fritillary butterfly	G?T?S?		FSC		
+ <i>Speyeria callippe callippe</i> Callippe silverspot butterfly	G5T1T2S1S2		FE		
<i>Speyeria egleis tehachapina</i> Tehachapi Mountain silverspot butterfly	G5T3?S?		FSC		
<i>Speyeria nokomis</i> ssp. Carson Valley silverspot butterfly	G?T?S?		FSC		
<i>Speyeria zerene behrensii</i> Behren's silverspot butterfly	G5T?S?		FE		
+ <i>Speyeria zerene hippolyta</i> Oregon silverspot butterfly	G5T1S1		FT		
<i>Speyeria zerene myrtleae</i> Myrtle's silverspot butterfly	G5T1S1		FE		
<i>Thessalia leanira</i> ssp. 1 Oso Flaco patch checkerspot butterfly	G4T?S?		FSC		

**INSECTA, Order Trichoptera (caddisflies)**

<i>Cryptochia denningi</i> Denning's cryptic caddisfly	G?S?		FSC		
<i>Cryptochia excella</i> Kings Canyon cryptochian caddisfly	G1G3S1S3		FSC		
<i>Cryptochia shasta</i> Confusion caddisfly	G?S?		FSC		
<i>Desmona bethula</i> Amphibious caddisfly	G?S?		FSC		
<i>Diplectrona californica</i> California diplectronan caddisfly	G1G3S1S3		FSC		
<i>Ecclisomyia bilera</i> King's Creek ecclisomyian caddisfly	G1G3S1S3		FSC		
<i>Farula</i> sp. Long-tailed caddisfly	G?S?		FSC		
<i>Goeracea oregana</i> Sagehen Creek goeracean caddisfly	G?S?		FSC		
<i>Lepidostoma ermanae</i> Cold Spring caddisfly	G?S?		FSC		
+ <i>Limnephilus atercus</i> Fort Dick limnephilus caddisfly	G1G3S1		FSC		
<i>Neothremmia genella</i> Golden-horned caddisfly	G?S?		FSC		
<i>Neothremmia siskiyou</i> Siskiyou caddisfly	G?S?		FSC		
+ <i>Parapsyche extensa</i> King's Creek parapsyche caddisfly	GHSB		FSC		
<i>Rhyacophila lineata</i> Castle Crags rhyacophilan caddisfly	G1G3S1S3		FSC		

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Rhyacophila mosana</i> Bilobed rhyacophilan caddisfly	G1G2S1S2		FSC		
+ <i>Rhyacophila spinata</i> Spiny rhyacophilan caddisfly	G1G2S1S2		FSC		

**INSECTA, Order Hymenoptera (ants, bees, and wasps)**

<i>Bombus franklini</i> Franklin's bumblebee	G?S?		FSC		
+ <i>Eucerceris ruficeps</i> Redheaded sphecid wasp	G1G3S1S3		FSC		
+ <i>Myrmosula pacifica</i> Antioch mutilid wasp	GHSX		FSC		
+ <i>Perdita hirticeps luteocincta</i> Yellow-banded andrenid bee	GXSX		FSC		
+ <i>Perdita scituta antiochensis</i> Antioch andrenid bee	G1T1S1		FSC		
+ <i>Philanthus nasalis</i> Antioch sphecid wasp	GXSX		FSC		
<i>Proceratium californicum</i> Valley oak ant	G?S?		FSC		
<i>Smithistruma reliquia</i> Ancient ant	G?S?		FSC		

## FISHES

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>PETROMYZONTIDAE (lampreys)</b>					
<i>Lampetra ayresii</i> River lamprey	G5S4		FSC		DFG: CSC
+ <i>Lampetra hubbsi</i> Kern brook lamprey	G2S1S2		FSC	LRnt	DFG: CSC
<i>Lampetra similis</i> Klamath River lamprey	G3G4QS3S4				DFG: CSC
<i>Lampetra tridentata</i> Pacific lamprey	G5S5		FSC		
+ <i>Lampetra tridentata</i> ssp.1 Goose Lake lamprey	G5T1S1		FSC		DFG: CSC FS: Sensitive
<b>ACIPENSERIDAE (sturgeon)</b>					
<i>Acipenser medirostris</i> Green sturgeon	G4G5S1S2		FSC	VU/A1ac	DFG: CSC
<b>SALMONIDAE (trout and salmon)</b>					
+ <i>Oncorhynchus clarki clarki</i> Coast cutthroat trout	G4T4S3				DFG: CSC FS: Sensitive
+ <i>Oncorhynchus clarki henshawi</i> Lahontan cutthroat trout	G4T2S2		FT		
+ <i>Oncorhynchus clarki seleniris</i> Paiute cutthroat trout	G4T1T2S1S2		FT		
<i>Oncorhynchus gorbuscha</i> Pink salmon	G5SH				DFG: CSC
<i>Oncorhynchus keta</i> Chum salmon	G5S1?				DFG: CSC
+ <i>Oncorhynchus kisutch</i> Coho salmon - Central California ESU <sup>3</sup>	G5S2?	SE <sup>1</sup>	FT <sup>2</sup>		
+ <i>Oncorhynchus kisutch</i> Coho Salmon - So. Oregon/No. California ESU	G5S2?		FT <sup>4</sup>		DFG: CSC

<sup>1</sup>The State listing is limited to Coho south of San Francisco Bay.

<sup>2</sup>The Federal listing is limited to naturally spawning populations in streams between Punta Gorda, Humboldt Co. and the San Lorenzo River, Santa Cruz Co.

<sup>3</sup>ESU = Evolutionarily Significant Unit.

<sup>4</sup>Populations between Cape Blanco (Oregon) and Punta Gorda (California).



	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Oncorhynchus mykiss aguabonita</i> Volcano Creek golden trout	G5T1S1		FSC		DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss aquilarum</i> Eagle Lake rainbow trout	G5T1S1		FSC		DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss</i> <sup>5</sup> Steelhead-Klamath Mountains Province ESU	G5S2		FC <sup>6</sup>		DFG: CSC <sup>7</sup> FS: Sensitive <sup>8</sup>
+ <i>Oncorhynchus mykiss</i> Steelhead-Northern California ESU	G5S2		FC <sup>9</sup>		DFG: CSC <sup>10</sup> FS: Sensitive <sup>11</sup>
<i>Oncorhynchus mykiss</i> Steelhead-Central California Coast ESU	G5S2		FT <sup>12</sup>		
+ <i>Oncorhynchus mykiss</i> Steelhead-South/Central California Coast ESU	G5S2		FT <sup>13</sup>		DFG: CSC <sup>14</sup>
+ <i>Oncorhynchus mykiss</i> Steelhead-Southern California ESU	G5S2		FE <sup>15</sup>		DFG: CSC <sup>16</sup>
<i>Oncorhynchus mykiss</i> Steelhead-Central Valley ESU	G5S2		FT <sup>17</sup>		

<sup>5</sup>All California steelhead belong to the subspecies *O. m. irideus*.

<sup>6</sup>Federal candidate status includes all runs between the Elk River in Oregon and the Klamath & Trinity Rivers in California, inclusive.

<sup>7</sup>CSC refers only to summer-run steelhead.

<sup>8</sup>Forest Service Sensitive Species designation refers only to summer-run steelhead.

<sup>9</sup>Federal candidate status includes all runs in coastal basins from Redwood Creek, south to the Gualala River, inclusive.

<sup>10</sup>CSC refers only to summer-run steelhead.

<sup>11</sup>Forest Service Sensitive Species designation refers only to summer-run steelhead.

<sup>12</sup>Federal listing includes all runs in coastal basins from the Russian River, south to Soquel Creek, inclusive. Includes the San Francisco and San Pablo Bay basins, but excludes the Sacramento-San Joaquin River basins.

<sup>13</sup>Federal listing includes all runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River.

<sup>14</sup>CSC refers to southern steelhead trout.

<sup>15</sup>Federal listing includes all runs in coastal basins from the Santa Maria River, south to the southern extent of the range (presently considered to be Malibu Creek).

<sup>16</sup>CSC refers to southern steelhead trout.

<sup>17</sup>Federal listing includes all runs in the Sacramento & San Joaquin rivers and their tributaries.

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Oncorhynchus mykiss gilberti</i> Kern River rainbow trout	G5T1T2S1S2		FSC		DFG: CSC
+ <i>Oncorhynchus mykiss whitei</i> Little Kern golden trout	G5T2S2		FT		
+ <i>Oncorhynchus mykiss</i> ssp.1 Goose Lake redband trout	G5T1S1		FSC		DFG: CSC FS: Sensitive
+ <i>Oncorhynchus mykiss</i> ssp.2 McCloud River redband trout	G5T1T2QS1S2		FC		DFG: CSC FS: Sensitive
<i>Oncorhynchus mykiss</i> ssp.3 Warner Valley redband trout	G5T1?S1?		FSC		FS: Sensitive
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon-Spring-run	G5S1	ST	FPE		FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon-Late fall-run	G5S1		FPT <sup>18</sup>		DFG: CSC FS: Sensitive
<i>Oncorhynchus tshawytscha</i> Chinook salmon-So. Ore. & Calif. coastal ESU	G5S1		FPT <sup>19</sup>		
+ <i>Oncorhynchus tshawytscha</i> Chinook salmon-Winter-run	G5S1	SE	FE		
<i>Salvelinus confluentus</i> Bull trout	G3SX	SE	FC	VU/A2e	

#### OSMERIDAE (smelt)

<i>Hypomesus transpacificus</i> Delta smelt	G1S1	ST	FT	EN/B1+2cd	
<i>Spirinichus thaleichthys</i> Longfin smelt	G4G5S1		FSC		DFG: CSC
<i>Thaleichthys pacificus</i> Eulachon	G4G5S3				DFG: CSC

#### CYPRINIDAE (minnows and carp)

+ <i>Gila bicolor mohavensis</i> Mohave tui chub	G4T1S1	SE	FE		DFG: Fully protected
<i>Gila bicolor pectinifer</i> Lahontan Lake tui chub	G4T3S1S2				DFG: CSC FS: Sensitive
+ <i>Gila bicolor snyderi</i> Owens tui chub	G4T1S1	SE	FE		
+ <i>Gila bicolor thalassina</i> Goose Lake tui chub	G4T2S1				DFG: CSC FS: Sensitive
+ <i>Gila bicolor vaccaceps</i> Cowhead Lake tui chub	G4T1S1		FPE		DFG: CSC

<sup>18</sup>Proposed federal listing is for the Central Valley fall/late fall-run ESU; it refers to populations spawning in the Sacramento & San Joaquin Rivers and their tributaries.

<sup>19</sup>Proposed federal listing is for all naturally spawned, coastal, spring and fall chinook salmon spawning between Cape Blanco, Oregon (inclusive of the Elk River) and Pt. Bonita, California.

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Gila bicolor</i> ssp.1 Eagle Lake tui chub	G4T1S1				DFG: CSC
+ <i>Gila bicolor</i> ssp.2 High Rock Springs tui chub	G4TXSX				DFG: CSC
<i>Gila coerulea</i> Blue chub	G3?S2S3				DFG: CSC
<i>Gila elegans</i> Bonytail	G1S1	SE	FE	EN/B1+2ac	
+ <i>Gila orcutti</i> Arroyo chub	G2S2		FSC		DFG: CSC FS: Sensitive
<i>Gila robusta</i> Roundtail chub	G?SX		FSC		
<i>Lavinia exilicauda</i> chi Clear Lake hitch	G5T2S2				DFG: CSC FS: Sensitive
+ <i>Lavinia symmetricus</i> mitrulus Pit roach	G5T2?S2?		FSC		DFG: CSC
<i>Lavinia symmetricus</i> navarroensis Navarro roach	G5T1T2S1S2				DFG: CSC
+ <i>Lavinia symmetricus</i> parvipinnis Gualala roach	G5T1T2S1S2		FSC		DFG: CSC
<i>Lavinia symmetricus</i> subditus Monterey roach	G5T2T3S2S3				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp.1 San Joaquin roach	G5T3?QS3?				DFG: CSC
+ <i>Lavinia symmetricus</i> ssp.2 Tomaes roach	G5T2T3S2S3				DFG: CSC
<i>Lavinia symmetricus</i> ssp.3 Red Hills roach	G5T1?S1?				DFG: CSC
+ <i>Mylopharodon conocephalus</i> Hardhead	G3S3				DFG: CSC FS: Sensitive
+ <i>Pogonichthys macrolepidotus</i> Sacramento splittail	G2S2		FT	EN/A1c	DFG: CSC
+ <i>Ptychocheilus lucius</i> Colorado squawfish	G1SX	SE	FE	VU/D2	DFG: Fully protected
+ <i>Rhinichthys osculus</i> ssp.1 Amargosa Canyon speckled dace	G5T1S1		FSC		DFG: CSC
+ <i>Rhinichthys osculus</i> ssp.2 Owens speckled dace	G5T1T2QS1S2		FSC		DFG: CSC
<i>Rhinichthys osculus</i> ssp.3 Santa Ana speckled dace	G5T1S1		FSC		DFG: CSC FS: Sensitive
<i>Rhinichthys osculus</i> ssp.4 Benton Valley speckled dace	G5T1QS1		FSC		
<i>Rhinichthys osculus</i> ssp.5 Long Valley speckled dace	G5T1S1		FSC		

#### CATOSTOMIDAE (suckers)

+ <i>Catostomus fumeiventris</i> Owens sucker	G3S3				DFG: CSC
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	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Catostomus latipinnis</i> Flannelmouth sucker	G?SX		FSC		
+ <i>Catostomus microps</i> Modoc sucker	G1S1	SE	FE	EN/B1+2c, C1	DFG: Fully protected
+ <i>Catostomus occidentalis lacusanserinus</i> Goose Lake sucker	G4T2T3S1		FSC		DFG: CSC FS: Sensitive
<i>Catostomus platyrhynchus</i> Mountain sucker	G5S2S3				DFG: CSC
<i>Catostomus rimiculus</i> ssp.1 Jenny Creek sucker	G4?T1?S1?		FSC		
+ <i>Catostomus santaanae</i> Santa Ana sucker	G1S1		FPT	VU/B1+2c, D2	DFG: CSC FS: Sensitive
+ <i>Catostomus snyderi</i> Klamath largescale sucker	G3S2		FSC	LRnt	DFG: CSC
+ <i>Chasmistes brevirostris</i> Shortnose sucker	G1S1	SE	FE	EN/B1+2c	DFG: Fully protected
+ <i>Deltistes luxatus</i> Lost River sucker	G1S1	SE	FE	EN/B1+2cd	DFG: Fully protected
+ <i>Xyrauchen texanus</i> Razorback sucker	G1S1	SE	FE	EN/A1bc	DFG: Fully protected

#### **CYPRINODONTIDAE (killifishes)**

+ <i>Cyprinodon macularius</i> Desert pupfish	G1S1	SE	FE		
+ <i>Cyprinodon nevadensis amargosae</i> Amargosa pupfish	G2T1S1				DFG: CSC FS: Sensitive
+ <i>Cyprinodon nevadensis nevadensis</i> Saratoga Springs pupfish	G2T1S1				DFG: CSC
+ <i>Cyprinodon nevadensis shoshone</i> Shoshone pupfish	G2T1S1		FSC		DFG: CSC
+ <i>Cyprinodon radiosus</i> Owens pupfish	G1S1	SE	FE	EN/A2ce	DFG: Fully protected
+ <i>Cyprinodon salinus milleri</i> Cottonball Marsh pupfish	G1T1S1	ST			
+ <i>Cyprinodon salinus salinus</i> Salt Creek pupfish	G1T1S1				DFG: CSC

#### **GASTEROSTEIDAE (sticklebacks)**

+ <i>Gasterosteus aculeatus williamsoni</i> Unarmored threespine stickleback	G5T1S1	SE	FE		DFG: Fully protected
<i>Gasterosteus aculeatus santaanae</i> Santa Ana threespine stickleback	G5T1S1				
<i>Gasterosteus aculeatus</i> ssp. Shay Creek threespine stickleback	G5T1S1				DFG: CSC

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>PERCICHTHYIDAE</b> (temperate basses)					
<i>Stereolepis gigas</i> (spawning grounds) Giant sea bass	G3?S1S2			CR/A1bd	
<b>CENTRARCHIDAE</b> (sunfishes)					
+ <i>Archoplites interruptus</i> (within native range) Sacramento perch	G3S1		FSC		DFG: CSC
<b>EMBIOTOCIDAE</b> (surfperches)					
+ <i>Hysterothorax traskii</i> pomo Russian River tule perch	G5T2?S2?		FSC		DFG: CSC
<b>GOBIIDAE</b> (gobies)					
+ <i>Eucyclogobius newberryi</i> Tidewater goby	G2G3S2S3		FE	VU/A1c+2c	DFG: CSC
<b>COTTIDAE</b> (sculpins)					
+ <i>Cottus asperimus</i> Rough sculpin	G2S2	ST	FSC	VU/D2	DFG: Fully protected
+ <i>Cottus klamathensis macrops</i> Bigeye marbled sculpin	G4T3S3				DFG: CSC
<i>Cottus perplexus</i> Reticulate sculpin	G4G5S2S3				DFG: CSC

## AMPHIBIANS

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>AMBYSTOMATIDAE</b> (mole salamanders)					
+ <i>Ambystoma macrodactylum croceum</i> Santa Cruz long-toed salamander	G5T1S1	SE	FE		DFG: Fully protected DFG: Protected
+ <i>Ambystoma californiense</i> California tiger salamander	G2G3S2S3		FC	VU/A2c	DFG: CSC DFG: Protected
<b>RHYACOTRITONIDAE</b> (Olympic salamanders)					
+ <i>Rhyacotriton variegatus</i> (=olympicus) Southern torrent (=seep) salamander	G4S2S3		FSC		DFG: CSC DFG: Protected FS: Sensitive
<b>SALAMANDRIDAE</b> (newts)					
<i>Taricha torosa torosa</i> Coast Range newt (SLO south)	G3G4T3S3				DFG: CSC
<b>PLETHODONTIDAE</b> (lungless salamanders)					
+ <i>Batrachoseps aridus</i> Desert slender salamander	G1S1	SE	FE	CR/A2cd	DFG: Protected
+ <i>Batrachoseps campi</i> Inyo Mountains slender salamander	G2S2		FSC	EN/B1+2a	DFG: CSC DFG: Protected FS: Sensitive FS: Sensitive
<i>Batrachoseps gabrieli</i> San Gabriel Mountains slender salamander	G1S1				
<i>Batrachoseps pacificus pacificus</i> Channel Islands slender salamander	G3QT2S2		FSC		
<i>Batrachoseps relictus</i> (=pacificus) Relictual slender salamander	G2?S2?		FSC		DFG: CSC FS: Sensitive
+ <i>Batrachoseps simatus</i> Kern Canyon slender salamander	G2S2	ST	FSC	VU/D2	DFG: Protected FS: Sensitive
+ <i>Batrachoseps stebbinsi</i> Tehachapi slender salamander	G2S2	ST	FSC	VU/D2	DFG: Protected FS: Sensitive
+ <i>Batrachoseps</i> sp.1 Breckenridge Mountain slender salamander	G1S1		FSC		DFG: CSC FS: Sensitive
+ <i>Batrachoseps</i> sp.2 (No common name)	G1S1?				
+ <i>Batrachoseps</i> sp.3 Scodie Mountains slender salamander	G1S1?				
+ <i>Batrachoseps</i> sp.4 Kern Plateau slender salamander	G2S2				FS: Sensitive
+ <i>Batrachoseps</i> sp.5 Guadalupe Creek slender salamander	G1S1				

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Ensatina eschscholtzi croceator</i> Yellow-blotched salamander	G5T2T3S2S3		FSC		DFG: CSC FS: Sensitive
+ <i>Ensatina eschscholtzi klauberi</i> Large-blotched salamander	G5T2T3S2S3		FSC		DFG: CSC FS: Sensitive
+ <i>Hydromantes brunus</i> Limestone salamander	G1S1	ST	FSC	VU/D2	DFG: Fully protected DFG: Protected FS: Sensitive
+ <i>Hydromantes platycephalus</i> Mount Lyell salamander	G3G4S3S4		FSC		DFG: CSC DFG: Protected
+ <i>Hydromantes shastae</i> Shasta salamander	G1G2S1S2	ST	FSC	VU/D2	DFG: Protected
+ <i>Hydromantes</i> sp.1 (No common name)	G1?S1?				
<i>Hydromantes</i> sp.2 Owens Valley web-toed salamander	G2?S2?		FSC		DFG: CSC
+ <i>Plethodon elongatus</i> Del Norte salamander	G3S3		FSC		DFG: CSC DFG: Protected
+ <i>Plethodon stormi</i> Siskiyou Mountains salamander	G3QS1S2	ST	FSC	VU/D2	DFG: Protected
<b>ASCAPHIDAE</b> (tailed frogs)					
+ <i>Ascaphus truei</i> Tailed frog	G3G4S2S3		FSC		DFG: CSC DFG: Protected
<b>PELOBATIDAE</b> (spadefoot toads)					
<i>Scaphiopus couchii</i> Couch's spadefoot	G5S2S3				DFG: CSC
+ <i>Scaphiopus hammondii</i> Western spadefoot	G3?S3?		FSC		DFG: CSC DFG: Protected
<b>BUFONIDAE</b> (true toads)					
<i>Bufo alvarius</i> Colorado River toad	G3G4S1?				DFG: CSC DFG: Protected
+ <i>Bufo canorus</i> Yosemite toad	G2G3S2S3		FSC	EN/A1a, B2be+3b	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Bufo exsul</i> Black toad	G1S1	ST	FSC	VU/D2	DFG: Fully protected DFG: Protected
+ <i>Bufo microscaphus californicus</i> Arroyo toad	G5?T3?S2S3		FE		DFD: CSC DFG: Protected (Full species)
<i>Bufo microscaphus microscaphus</i> Arizona toad	G4T3S1?		FSC		DFG: Protected (Full species)

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>RANIDAE (true frogs)</b>					
+ <i>Rana aurora aurora</i> Northern red-legged frog	G4T2?S2?		FSC		DFG: CSC DFG: Protected (Full species) FS: Sensitive
+ <i>Rana aurora draytonii</i> California red-legged frog	G4T2T3S2S3		FT		DFG: CSC DFG: Protected (Full species)
+ <i>Rana boylei</i> Foothill yellow-legged frog	G3S2S3		FSC		DFG: CSC DFG: Protected FS: Sensitive
+ <i>Rana cascadae</i> Cascades frog	G4S3		FSC	VU/A1a	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Rana muscosa</i> Mountain yellow-legged frog	G5S2S3		FSC	VU/A1a	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Rana pipiens</i> Northern leopard frog	G5S2				DFG: CSC FS: Sensitive
<i>Rana pretiosa</i> Spotted frog	G5S1		FC		DFG: CSC DFG: Protected FS: Sensitive
<i>Rana yavapaiensis</i> Lowland (=Yavapai & San Felipe) leopard frog	G3SX		FSC		DFG: CSC DFG: Protected



## REPTILES

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>KINOSTERNIDAE</b> (musk and mud turtles)					
<i>Kinosternon sonoriense</i> Sonoran mud turtle	G4G5SH			VU/A1c	DFG: CSC DFG: Protected
<b>EMYDIDAE</b> (box and water turtles)					
+ <i>Clemmys marmorata</i> Western pond turtle	G4S3		FSC	VU/A1cd	DFG: CSC DFG: Protected
+ <i>Clemmys marmorata marmorata</i> Northwestern pond turtle	G4T4S3		FSC		DFG: CSC DFG: Protected (Full species) FS: Sensitive
+ <i>Clemmys marmorata pallida</i> Southwestern pond turtle	G4T2T3S2		FSC		DFG: CSC DFG: Protected (Full species) FS: Sensitive
<b>TESTUDINIDAE</b> (land tortoises)					
+ <i>Xerobates (=Gopherus) agassizi</i> Desert tortoise	G3S2	ST	FT	VU/A1acde +2cde, E	DFG: Protected
<b>GEKKONIDAE</b> (geckos)					
+ <i>Coleonyx switaki</i> Barefoot banded gecko	G1S1	ST	FSC		DFG: Protected
<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	G5T3T4S2S3		FSC		
<b>IGUANIDAE</b> (iguanids)					
+ <i>Gambelia sila (=silus)</i> Blunt-nosed leopard lizard	G1S1	SE	FE	EN/A1ce	DFG: Fully protected DFG: Protected
+ <i>Phrynosoma coronatum blainvillei</i> San Diego horned lizard	G4T3T4S2S3		FSC		DFG: CSC DFG: Protected (Full species) FS: Sensitive
+ <i>Phrynosoma coronatum frontale</i> California horned lizard	G4T3T4S3S4		FSC		DFG: CSC DFG: Protected (Full species)
+ <i>Phrynosoma mcalli</i> Flat-tailed horned lizard	G2S2				DFG: CSC DFG: Protected
<i>Sauromalus obesus</i> Chuckwalla	G5S4		FSC		

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Sceloporus graciosus graciosus</i> Northern sagebrush lizard	G5T5S3		FSC		
+ <i>Uma inornata</i> Coachella Valley fringe-toed lizard	G1S1	SE	FT	EN/A1a, B1+2c	DFG: Protected
<i>Uma notata notata</i> Colorado Desert fringe-toed lizard	G3QT3S2?		FSC		DFG: CSC
<i>Uma scoparia</i> Mojave fringe-toed lizard	G3G4S3S4				DFG: CSC
<b>XANTUSIIDAE</b> (night lizards)					
<i>Xantusia henshawi gracilis</i> Sandstone night lizard	G3G4T1S1		FSC		DFG: CSC DFG: Protected (Full species)
+ <i>Xantusia riversiana</i> Island night lizard	G1S1		FT	VU/D2	DFG: Protected
<i>Xantusia vigilis sierrae</i> Sierra night lizard	G4G5T1S1		FSC		DFG: CSC FS: Sensitive
<b>SCINCIDAE</b> (skinks)					
+ <i>Eumeces skiltonianus interparietalis</i> Coronado skink	G5T2T3S1S2		FSC		DFG: CSC
<b>TEIIDAE</b> (whiptails and relatives)					
+ <i>Cnemidophorus hyperythrus beldingi</i> Beldings orange-throated whiptail	G5T2S2		FSC (Full species)	DD (Full species)	DFG: CSC DFG: Protected (Full species)
+ <i>Cnemidophorus tigris multiscutatus</i> Coastal western whiptail	G5T3?S2S3		FSC		
<b>ANGUIDAE</b> (alligator lizards)					
+ <i>Gerrhonotus (=Elgaria) panamintinus</i> Panamint alligator lizard	G1G2S1S2		FSC	VU/D2	DFG: CSC DFG: Protected FS: Sensitive
<b>ANNIELLIDAE</b> (legless lizards)					
+ <i>Anniella pulchra pulchra</i> Silvery legless lizard	G4QT3S3		FSC		DFG: CSC FS: Sensitive
+ <i>Anniella pulchra nigra</i> Black legless lizard	G4QT2S2				DFG: CSC DFG: Protected FS: Sensitive
<b>HELODERMATIDAE</b> (venomous lizards)					
+ <i>Heloderma suspectum cinctum</i> Banded gila monster (population west of Colorado River)	G3G4T1S1		FSC	VU/A2cd (Full species)	DFG: CSC DFG: Protected

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>BOIDAE (boas)</b>					
+ <i>Charina bottae umbratica</i> Southern rubber boa	G5T2T3S2S3	ST	FSC		FS: Sensitive DFG: Protected
<i>Lichanura trivirgata</i> Rosy boa	G5S3S4		FSC		
<b>COLUBRIDAE (colubrids)</b>					
<i>Bogertiphis (=Elaphe) rosaliae</i> Baja California rat snake	G4?S1				DFG: CSC
+ <i>Diadiphis punctatus modestus</i> San Bernardino ringneck snake	G5T2?S2		FSC		FS: Sensitive
+ <i>Diadiphis punctatus similis</i> San Diego ringneck snake	G5T2?S2?				FS: Sensitive
+ <i>Lampropeltis zonata parvirubra</i> San Bernardino mountain kingsnake	G4T2?S2?		FSC		DFG: CSC FS: Sensitive
+ <i>Lampropeltis zonata pulchra</i> San Diego mountain kingsnake	G4T1T2S1S2		FSC		DFG: CSC DFG: Protected FS: Sensitive DFG: CSC
+ <i>Masticophis flagellum ruddocki</i> San Joaquin whipsnake	G5T2?S2?		FSC		DFG: Protected DFG: Protected
+ <i>Masticophis lateralis euryxanthus</i> Alameda whipsnake (=striped racer)	G4T2S2	ST	FT		
<i>Pituophis melanoleucus pumilus</i> Santa Cruz gopher snake	G5T1?S1?		FSC		DFG: CSC
+ <i>Salvadora hexalepis virgulata</i> Coast patch-nosed snake	G5T3S2S3		FSC		DFG: CSC
+ <i>Thamnophis gigas</i> Giant garter snake	G2G3S2S3	ST	FT	VU/A1cde +2cde	DFG: Protected
+ <i>Thamnophis hammondi</i> Two-striped garter snake	G3?S2		FSC	DD	DFG: CSC DFG: Protected FS: Sensitive
+ <i>Thamnophis sirtalis tetrataenia</i> San Francisco garter snake	G5T2S2	SE	FE	NE	DFG: Fully protected DFG: Protected
<i>Thamnophis sirtalis</i> ssp. South Coast garter snake	G5T1T2S1S2		FSC		DFG: CSC
<b>VIPERIDAE (vipers)</b>					
+ <i>Crotalus ruber ruber</i> Northern red-diamond rattlesnake	G4T3T4S2?		FSC		DFG: CSC

## BIRDS

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>GAVIIDAE (loons)</b>					
<i>Gavia immer</i> (nesting) Common loon	G5S1				DFG: CSC FWS: MNBMC
<b>HYDROBATIDAE (storm petrels)</b>					
+ <i>Oceanodroma furcata</i> (rookery site) Fork-tailed storm-petrel	G5S1				DFG: CSC
+ <i>Oceanodroma homochroa</i> (rookery site) Ashy storm-petrel	G2S2		FSC	LRnt	DFG: CSC FWS: MNBMC PIF: Watch list
+ <i>Oceanodroma melania</i> (rookery site) Black storm-petrel	G3S1				DFG: CSC PIF: Watch list
<b>PELECANIDAE (pelicans)</b>					
+ <i>Pelecanus erythrorhynchos</i> (nesting colony) American white pelican	G3S1				DFG: CSC Audubon: Cal WL
+ <i>Pelecanus occidentalis californicus</i> California brown pelican (nesting colony)	G4T3S1S2	SE	FE		FWS: MNBMC DFG: Fully protected
<b>PHALACROCORACIDAE (cormorants)</b>					
+ <i>Phalacrocorax auritus</i> (rookery site) Double-crested cormorant	G5S3				DFG: CSC
<b>ARDEIDAE (herons, egrets, and bitterns)</b>					
+ <i>Ardea alba</i> (rookery) Great egret	G5S4				CDF: Sensitive
+ <i>Ardea herodias</i> (rookery) Great blue heron	G5S4				CDF: Sensitive
<i>Botaurus lentiginosus</i> American bittern	G5S3				FWS: MNBMC
+ <i>Egretta thula</i> (rookery) Snowy egret	G5S4				
+ <i>Ixobrychus exilis hesperis</i> (nesting) Western least bittern	G5T1S1		FSC		DFG: CSC FWS: MNBMC (Full species)
+ <i>Nycticorax nycticorax</i> (rookery) Black-crowned night heron	G5S3				

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>THRESKIORNITHIDAE</b> (ibises and spoonbills)					
+ <i>Plegadis chihi</i> (rookery site) White-faced ibis	G5S1		FSC		DFG: CSC FWS: MNBMC
<b>CICONIIDAE</b> (storks)					
<i>Mycteria americana</i> Wood stork					DFG: CSC
<b>ANATIDAE</b> (ducks, geese, and swans)					
<i>Aythya valisineria</i> (nesting) Canvasback	G5S2?				
+ <i>Branta canadensis leucopareia</i> (wintering) Aleutian Canada goose	G5T2S2		FT		
<i>Bucephala islandica</i> (nesting) Barrow's goldeneye	G5S1				DFG: CSC Audubon: Cal WL
<i>Dendrocygna bicolor</i> (nesting) Fulvous whistling duck	G5S1S3		FSC		DFG: CSC
+ <i>Histrionicus histrionicus</i> (nesting) Harlequin duck	G5S2		FSC		DFG: CSC
<b>CATHARTIDAE</b> (New World vultures)					
+ <i>Gymnogyps californianus</i> California condor	G1S1	SE	FE	CR/D1	CDF: Sensitive DFG: Fully protected
<b>ACCIPITRIDAE</b> (hawks, kites, harriers, and eagles)					
+ <i>Accipiter cooperi</i> (nesting) Cooper's hawk	G4S3				DFG: CSC
+ <i>Accipiter gentilis</i> (nesting) Northern goshawk	G4S3		FSC		DFG: CSC FWS: MNBMC FS: Sensitive CDF: Sensitive DFG: CSC
+ <i>Accipiter striatus</i> (nesting) Sharp-shinned hawk	G4S3				DFG: CSC DFG: Fully protected CDF: Sensitive DFG: CSC
+ <i>Aquila chrysaetos</i> (nesting and wintering) Golden eagle	G4S3				DFG: CSC DFG: Fully protected CDF: Sensitive DFG: CSC
<i>Buteo regalis</i> (wintering) Ferruginous hawk	G4S3S4		FSC		Audubon: Cal WL FWS: MNBMC
+ <i>Buteo swainsoni</i> (nesting) Swainson's hawk	G4S2	ST			
+ <i>Circus cyaneus</i> (nesting) Northern harrier	G5S3				DFG: CSC

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Elanus leucurus</i> (nesting) White-tailed kite	G5S3				FWS: MNBMC DFG: Fully protected
+ <i>Haliaeetus leucocephalus</i> (nesting and wintering) Bald eagle	G4S2	SE	FT		CDF: Sensitive DFG: Fully protected
+ <i>Pandion haliaetus</i> (nesting) Osprey	G5S3				DFG: CSC CDF: Sensitive
<i>Parabuteo unicinctus</i> (nesting) Harris' hawk	G5SH				DFG: CSC
<b>FALCONIDAE (falcons)</b>					
<i>Falco columbarius</i> (wintering) Merlin	G5S3				DFG: CSC
+ <i>Falco mexicanus</i> (nesting) Prairie falcon	G5S3				DFG: CSC Audubon: Cal WL
<i>Falco peregrinus anatum</i> (nesting) American peregrine falcon	G3T2S2	SE	FE		FWS: MNBMC (Full species) CDF: Sensitive DFG: Fully protected
<b>PHASIANIDAE (grouse and ptarmigan)</b>					
<i>Bonasa umbellus</i> Ruffed grouse	G5S4				DFG: CSC
+ <i>Centrocercus urophasianus</i> (nesting) Sage grouse	G5S3				DFG: CSC Audubon: Cal WL
<i>Tympanuchus phasianellus columbianus</i> Columbian sharp-tailed grouse	G4T2SX		FSC		DFG: CSC
<b>RALLIDAE (rails, coots, and gallinules)</b>					
+ <i>Coturnicops noveboracensis</i> Yellow rail	G4S1S2				DFG: CSC FWS: MNBMC PIF: Watch list Audubon: Cal WL
+ <i>Laterallus jamaicensis coturniculus</i> California black rail	G4T1S1	ST	FSC		PIF: Watch list (Full species) DFG: Fully protected Audubon: Cal WL FWS: MNBMC (Full species)
+ <i>Rallus longirostris levipes</i> Light-footed clapper rail	G5T1S1	SE	FE		DFG: Fully protected
+ <i>Rallus longirostris obsoletus</i> California clapper rail	G5T1S1	SE	FE		DFG: Fully protected
+ <i>Rallus longirostris yumanensis</i> Yuma clapper rail	G5T3S1	ST	FE		DFG: Fully protected

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>GRUIDAE (cranes)</b>					
+ <i>Grus canadensis tabida</i> (nesting and wintering) Greater sandhill crane	G5T2S2	ST			DFG: Fully protected Audubon: Cal WL
<b>CHARADRIIDAE (plovers and relatives)</b>					
+ <i>Charadrius alexandrinus nivosus</i> (nesting) Western snowy plover (coastal population)	G4T2S2		FT		DFG: CSC FWS: MNBMC (Full species) PIF: Watch list (Full species)
+ <i>Charadrius alexandrinus nivosus</i> (nesting) Western snowy plover (inland populations)	G4T2S2				DFG: CSC FWS: MNBMC (Full species) PIF: Watch list (Full species)
+ <i>Charadrius montanus</i> (wintering) Mountain plover	G3S2?		FC	VU/A1c	DFG: CSC PIF: Watch list FWS: MNBMC
<b>HAEMATOPODIDAE (oystercatchers)</b>					
<i>Haematopus bachmani</i> (nesting) Black oystercatcher	G5S2				PIF: Watch list Audubon: Cal WL
<b>SCOLOPACIDAE (sandpipers and relatives)</b>					
<i>Numenius americanus</i> (nesting) Long-billed curlew	G5S2				DFG: CSC Audubon: Cal WL FWS: MNBMC PIF: Watch list
<b>LARIDAE (gulls and terns)</b>					
+ <i>Chlidonias niger</i> (nesting colony) Black tern	G5S2		FSC		DFG: CSC FWS: MNBMC
<i>Larus atricilla</i> (nesting colony) Laughing gull	G?SH				DFG: CSC
+ <i>Larus californicus</i> (nesting colony) California gull	G5S2				DFG: CSC
+ <i>Rynchops niger</i> (nesting colony) Black skimmer	G5S1S3				DFG: CSC
+ <i>Sterna antillarum browni</i> (nesting colony) California least tern	G4T2T3S2S3	SE	FE		FWS: MNBMC (Full species) DFG: Fully protected
+ <i>Sterna caspia</i> (nesting colony) Caspian tern	G5S4				

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Sterna elegans</i> (nesting colony) Elegant tern	G5S1		FSC	LRnt	DFG: CSC FWS: MNBMC Audubon: Cal WL
<i>Sterna forsteri</i> (nesting colony) Forster's tern	G5S4				
+ <i>Sterna nilotica vanrossemei</i> (nesting colony) Van Rossem's gull-billed tern	G5T1S		FSC		DFG: CSC
<b>ALCIDAE</b> (auklets, puffins, and relatives)					
+ <i>Brachyramphus marmoratus</i> (nesting) Marbled murrelet	G3S1	SE	FT	LRnt	FWS: MNBMC CDF: Sensitive DFG: CSC
+ <i>Cerorhinca monocerata</i> (nesting colony) Rhinoceros auklet	G5S3				
+ <i>Fratercula cirrhata</i> (nesting colony) Tufted puffin	G5S2				DFG: CSC
<i>Synthliboramphus hypoleucus hypoleucus</i> (nesting colony) Northern Xantus' murrelet	G5T3S3		FSC	LRnt (Full species)	DFG: CSC FWS: MNBMC (Full species) PIF: Watch list (Full species)
<b>CUCULIDAE</b> (cuckoos and relatives)					
+ <i>Coccyzus americanus occidentalis</i> (nesting) Western yellow-billed cuckoo	G5T2T3S1	SE			FWS: MNBMC (Full species)
<b>STRIGIDAE</b> (owls)					
+ <i>Asio flammeus</i> (nesting) Short-eared owl	G5S3				DFG: CSC Audubon: Cal WL FWS: MNBMC PIF: Watch list DFG: CSC
+ <i>Asio otus</i> (nesting) Long-eared owl	G5S3				
+ <i>Athene cunicularia hypugea</i> (burrow sites) Burrowing owl	G4T2S2		FSC		DFG: CSC FWS: MNBMC (Full species) Audubon: Cal WL PIF: Watch list
+ <i>Micrathene whitneyi</i> (nesting) Elf owl	G5S1	SE			FS: Sensitive CDF: Sensitive
+ <i>Strix nebulosa</i> (nesting) Great gray owl	G5S1	SE			CDF: Sensitive
+ <i>Strix occidentalis caurina</i> Northern spotted owl	G3T2T3S2S3		FT	LRnt (Full species)	CDF: Sensitive FWS: MNBMC (Full species)
<i>Strix occidentalis occidentalis</i> California spotted owl	G3T3S3		FSC	LRnt (Full species)	DFG: CSC FS: Sensitive FWS: MNBMC (Full species)



	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>APODIDAE (swifts)</b>					
<i>Chaetura vauxi</i> (nesting) Vaux's swift	G?S3				DFG: CSC FWS: MNBMC Audubon: Cal WL
+ <i>Cypseloides niger</i> (nesting) Black swift	G4S2				DFG: CSC FWS: MNBMC PIF: Watch list Audubon: Cal WL
<b>TROCHILIDAE (hummingbirds)</b>					
<i>Selasphorus rufus</i> (nesting) Rufous hummingbird	G5S1S2				FWS: MNBMC PIF: Watch list Audubon: Cal WL
<b>PICIDAE (woodpeckers)</b>					
+ <i>Colaptes chrysoides</i> Gilded flicker	G4?S1	SE			PIF: Watch list Audubon: Cal WL
+ <i>Melanerpes uropygialis</i> Gila woodpecker	G5S1S2	SE			FWS: MNBMC
<b>TYRANNIDAE (tyrant flycatchers)</b>					
<i>Contopus borealis</i> (nesting) Olive-sided flycatcher	G?S4				Audubon: Cal WL FWS: MNBMC
+ <i>Empidonax trailii</i> (nesting) Willow flycatcher	G5S1S2	SE			FS: Sensitive
<i>Empidonax trailii brewsteri</i> (nesting) Little willow flycatcher	G5T1T2S1S2			FSC	
+ <i>Empidonax trailii extimus</i> (nesting) Southwestern willow flycatcher	G5T1S1			FE	
+ <i>Myiarchus tyrannulus</i> (nesting) Brown-crested flycatcher	G5S2S3				DFG: CSC
+ <i>Pyrocephalus rubinus</i> (nesting) Vermilion flycatcher	G5S2S3				DFG: CSC
<b>ALAUDIDAE (larks)</b>					
+ <i>Eremophila alpestris actia</i> California horned lark	G4G5T3S3				DFG: CSC
<b>HIRUNDINIDAE (swallows)</b>					
+ <i>Progne subis</i> (nesting) Purple martin	G5S3				DFG: CSC
+ <i>Riparia riparia</i> (nesting) Bank swallow	G5S2S3	ST			

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>CORVIDAE</b> (jays, crows, and magpies)					
<i>Aphelocoma coerulescens cana</i> Eagle Mountain scrub jay	G5T1T2S1S2		FSC		DFG: CSC
<i>Aphelocoma insularis</i> Island scrub jay	G1S1				PIF: Watch list
<b>PARIDAE</b> (titmice and relatives)					
<i>Parus atricapillus</i> Black-capped chickadee	G5S3				DFG: CSC
<b>MIMIDAE</b> (mockingbirds and thrashers)					
+ <i>Toxostoma bendirei</i> Bendire's thrasher	G5S3				DFG: CSC PIF: Watch list FWS: MNBMC Audubon: Cal WL
+ <i>Toxostoma crissale</i> (=dorsale) Crissale thrasher	G5S3				DFG: CSC Audubon: Cal WL
+ <i>Toxostoma lecontei</i> Le Conte's thrasher	G4S3				DFG: CSC PIF: Watch list Audubon: Cal WL
<i>Toxostoma lecontei macmillanorum</i> San Joaquin Le Conte's thrasher	G4T1S1		FSC		DFG: CSC PIF: Watch list (Full species) Audubon: Cal WL (Full species)
<b>TROGLODYTIDAE</b> (wrens)					
+ <i>Campylorhynchus brunneicapillus couesi</i> Coastal cactus wren	G5T2?S2?				DFG: CSC
<b>MUSCICAPIDAE</b> (thrushes, gnatcatchers, and kinglets)					
+ <i>Polioptila californica</i> California gnatcatcher	G2S2		FT		DFG: CSC
+ <i>Polioptila melanura</i> Black-tailed gnatcatcher	G5S4				Audubon: Cal WL
<b>LANIIDAE</b> (shrikes)					
<i>Lanius ludovicianus</i> Loggerhead shrike	G4S4		FSC		DFG: CSC Audubon: Cal WL FWS: MNBMC
+ <i>Lanius ludovicianus mearnsi</i> San Clemente loggerhead shrike	G4T1S1		FE		
<i>Lanius ludovicianus anthonyi</i> Island loggerhead shrike	G4T1?S1?				DFG: CSC

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>VIREONIDAE (vireos)</b>					
+ <i>Vireo bellii arizonae</i> (nesting) Arizona Bell's vireo	G5T1S1	SE			PIF: Watch list (Full species) FWS: MNBMC (Full species)
+ <i>Vireo bellii pusillus</i> (nesting) Least Bell's vireo	G5T2S2	SE	FE		PIF: Watch list (Full species) FWS: MNBMC (Full species)
+ <i>Vireo vicinior</i> (nesting) Gray vireo	G5S2				DFG: CSC PIF: Watch list Audubon: Cal WL
<b>EMBERIZIDAE (sparrows, buntings, warblers, and relatives)</b>					
+ <i>Agelaius tricolor</i> (nesting colony) Tricolored blackbird	G2S2		FSC		DFG: CSC FWS: MNBMC Audubon: Cal WL
+ <i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow	G4T2T3S2S3		FSC		DFG: CSC Audubon: Cal WL (Full species) FWS: MNBMC
<i>Ammodramus savannarum</i> (nesting) Grasshopper sparrow	G5T3S2				
<i>Amphispiza belli belli</i> (nesting) Bell's sage sparrow	G5T2?S2?		FSC		DFG: CSC PIF: Watch list (Full species) Audubon: Cal WL (Full species) FWS: MNBMC (Full species)
+ <i>Amphispiza belli clementeae</i> San Clemente sage sparrow	G5T1S1		FT		PIF: Watch list (Full species) Audubon: Cal WL (Full species) FWS: MNBMC (Full species)
+ <i>Cardinalis cardinalis</i> Northern cardinal	G5S1				DFG: CSC
<i>Dendroica occidentalis</i> (nesting) Hermit warbler	G4G5S3?				PIF: Watch list Audubon: Cal WL FWS: MNBMC
+ <i>Dendroica petechia brewsteri</i> (nesting) Yellow warbler	G5T2S2				DFG: CSC
+ <i>Dendroica petechia sonorana</i> (nesting) Sonoran yellow warbler	G5T1S1				DFG: CSC
+ <i>Geothlypis trichas sinuosa</i> Saltmarsh common yellowthroat	G5T2S2		FSC		DFG: CSC

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Icteria virens</i> (nesting) Yellow-breasted chat	G5S3				DFG: CSC
+ <i>Junco hyemalis caniceps</i> (nesting) California gray-headed junco	G5T1S1				DFG: CSC
+ <i>Melospiza melodia maxillaris</i> Suisun song sparrow	G5T2S2		FSC		DFG: CSC
<i>Melospiza melodia pusillula</i> Alameda (South Bay) song sparrow	G5T2?S2?		FSC		DFG: CSC
<i>Melospiza melodia samuelis</i> San Pablo (=Samuel's) song sparrow	G5T2?S2?		FSC		DFG: CSC
+ <i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	G5T3S3	SE	FSC		
<i>Passerculus sandwichensis rostratus</i> (wintering) Large-billed savannah sparrow	G5T2?S2?		FSC		DFG: CSC
<i>Pipilo aberti</i> Abert's towhee	G4S2?				PIF: Watch list Audubon: Cal WL
+ <i>Pipilo crissalis eremophilus</i> Inyo California towhee	G4G5T1S1	SE	FT		Audubon: Cal WL (Full species)
<i>Pipilo erythrophthalmus clementae</i> San Clemente towhee	G5T1S1		FSC		DFG: CSC
+ <i>Piranga flava</i> (nesting) Hepatic tanager	G5S1				DFG: CSC
+ <i>Piranga rubra</i> (nesting) Summer tanager	G5S2				DFG: CSC
<i>Spizella atrogularis</i> (nesting) Black-chinned sparrow	G5S3				PIF: Watch list Audubon: Cal WL
<i>Spizella breweri</i> (nesting) Brewer's sparrow	G5S3				PIF: Watch list FWS: MNBMC
<i>Spizella passerina</i> (nesting) Chipping sparrow	G5S3S4				
<i>Vermivora luciae</i> (nesting) Lucy's warbler	G4S2S3				PIF: Watch list FWS: MNBMC Audubon: Cal WL
+ <i>Vermivora virginiae</i> (nesting) Virginia's warbler	G4S2S3				DFG: CSC PIF: Watch list
<i>Xanthocephalus xanthocephalus</i> (nesting) Yellow-headed blackbird	G4G5S3S4				
<b>FRINGILLIDAE (finches and relatives)</b>					
<i>Carduelis lawrencei</i> (nesting) Lawrence's goldfinch	G3S3				PIF: Watch list FWS: MNBMC Audubon: Cal WL

# MAMMALS

	<u>NDDB RANK</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>TALPIDAE (moles)</b>					
<i>Scapanus latimanus parvus</i> Alameda Island mole	G5T1S1		FSC		DFG: CSC
<i>Scapanus latimanus insularis</i> Angel Island mole	G5T1S1				
<b>SORICIDAE (shrews)</b>					
<i>Sorex lyelli</i> Mount Lyell shrew	G3S2S3				DFG: CSC
+ <i>Sorex ornatus relictus</i> Buena Vista Lake shrew	G5T1S1		FC		DFG: CSC
<i>Sorex ornatus salarius</i> Monterey shrew (AKA Salinas ornate shrew)	G5T1T2S1S2		FSC		DFG: CSC
<i>Sorex ornatus salicornicus</i> Southern California saltmarsh shrew	G5T1?S1?		FSC		DFG: CSC
+ <i>Sorex ornatus sinuosus</i> Suisun shrew	G5T1S1		FSC		DFG: CSC
+ <i>Sorex ornatus willetti</i> Santa Catalina shrew	G5T1S1		FSC		DFG: CSC
+ <i>Sorex vagrans halicoetes</i> Salt-marsh wandering shrew	G5T1S1		FSC		DFG: CSC
<i>Sorex vagrans paludivagus</i> No common name	G5T1S1				
<b>PHYLLOSTOMIDAE (leaf-nosed bats)</b>					
<i>Choeronycteris mexicana</i> Mexican long-tongued bat	G2S1		FSC	LRnt	DFG: CSC
+ <i>Macrotus californicus</i> California leaf-nosed bat	G4S2S3		FSC	VU/A2c	DFG: CSC FS: Sensitive
<b>VESPERTILIONIDAE (mouse-eared bats)</b>					
+ <i>Antrozous pallidus</i> Pallid bat	G5S3				DFG: CSC FS: Sensitive
+ <i>Corynorhinus (=Plecotus) townsendii pallescens</i> Pale big-eared bat	G5T3T4S2S3		FSC (Full species)	VU/A2c (Full species)	DFG: CSC (Full species) FS: Sensitive (Full species)
+ <i>Corynorhinus (=Plecotus) townsendii townsendii</i> Townsend's western big-eared bat	G5T3T4S2S3		FSC (Full species)	VU/A2c (Full species)	DFG: CSC (Full species) FS: Sensitive (Full species)

	<u>NDDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Euderma maculatum</i> Spotted bat	G4S2S3		FSC		DFG: CSC
+ <i>Myotis ciliolabrum</i> Small-footed myotis	G5S?		FSC		
+ <i>Myotis evotis</i> Long-eared myotis	G5S4?		FSC		
<i>Myotis occultus</i> (= <i>Myotis lucifugus occultus</i> ) Occult little brown bat (AKA Arizona myotis)	G5T3T4S2S3		FSC		DFG: CSC
+ <i>Myotis thysanodes</i> Fringed myotis	G5S4		FSC		
+ <i>Myotis velifer</i> Cave myotis	G5S1		FSC		DFG: CSC
+ <i>Myotis volans</i> Long-legged myotis	G5S4?		FSC		
+ <i>Myotis yumanensis</i> Yuma myotis (AKA San Joaquin myotis)	G5S4?		FSC		DFG: CSC
<b>MOLOSSIDAE</b> (free-tailed bats)					
+ <i>Eumops perotis</i> Western mastiff bat	G5S3?		FSC ( <i>Ssp californicus</i> )		DFG: CSC
+ <i>Nyctinomops</i> (= <i>Tadarida</i> ) <i>femorosaccus</i> Pocketed free-tailed bat	G4S2S3				DFG: CSC
<i>Nyctinomops</i> (= <i>Tadarida</i> ) <i>macrotis</i> Big free-tailed bat	G5S2				DFG: CSC
<b>OCHOTONIDAE</b> (pikas)					
<i>Ochotona princeps sheltoni</i> White Mountains pika	G5?T1T2S1S2			VU/D1	
<b>LEPORIDAE</b> (rabbits and hares)					
<i>Brachylagus idahoensis</i> Pygmy rabbit	G5S3		FSC	LRnt	DFG: CSC
<i>Lepus americanus klamathensis</i> Oregon snowshoe hare	G5T2T3S2?				DFG: CSC
<i>Lepus americanus tahoensis</i> Sierra Nevada snowshoe hare	G5T2T3S2?		FSC		DFG: CSC
+ <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	G5T3?S3?		FSC		DFG: CSC
<i>Lepus townsendii</i> White-tailed hare	G5S3?				DFG: CSC
+ <i>Sylvilagus bachmani riparius</i> Riparian brush rabbit	G5T1S1	SE	FPE		

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>APLODONTIDAE</b> (mountain beavers)					
+ <i>Aplodontia rufa californica</i> Sierra Nevada mountain beaver	G5T3?S3?		FSC		DFG: CSC
+ <i>Aplodontia rufa nigra</i> Point Arena mountain beaver	G5T1S1		FE	VU/B1+2de	DFG: CSC
+ <i>Aplodontia rufa phaea</i> Point Reyes mountain beaver	G5T2S2		FSC	VU/B1+2e	DFG: CSC
<b>SCIURIDAE</b> (squirrels and relatives)					
+ <i>Ammospermophilus nelsoni</i> San Joaquin antelope squirrel	G2S2	ST	FSC	EN/A1a, B1+2c	
<i>Glaucomys sabrinus californicus</i> San Bernardino flying squirrel	G5T3?S3?		FSC	DD	DFG: CSC FS: Sensitive
<i>Spermophilus lateralis bernardinus</i> San Bernardino ground squirrel	G5T1S1				
+ <i>Spermophilus mohavensis</i> Mohave ground squirrel	G2?S2?	ST	FSC	VU/B1+3d	
+ <i>Spermophilus tereticaudus chlorus</i> Coachella Valley round-tailed ground squirrel	G5T1T2S1S2		FSC	DD	DFG: CSC
+ <i>Tamias panamintinus acrus</i> Kingston Mountain chipmunk	G5T1T2S1S2				
<i>Tamias speciosus callipeplas</i> Mount Pinos chipmunk	G5T1T2S1S2				FS: Sensitive
<i>Tamias speciosus speciosus</i> Lodgepole chipmunk	G5T3?S3?		FSC		
<i>Thomomys umbrinus</i> (=bottae) <i>amargosae</i> Amargosa pocket gopher	G5T1?S1?			LRnt (Full species)	
<i>Thomomys umbrinus</i> (=bottae) <i>operarius</i> Owens Lake pocket gopher	G5T1?S1?			LRnt (Full species)	
<b>HETEROMYIDAE</b> (kangaroo rats, pocket mice, and kangaroo mice)					
<i>Chaetodipus</i> (=Perognathus) <i>californicus femoralis</i> Dulzura (California) pocket mouse	G4T2T3S2?		FSC	DD	DFG: CSC
+ <i>Chaetodipus</i> (=Perognathus) <i>fallax fallax</i> Northwestern San Diego pocket mouse	G4T3?S2S3		FSC	DD	DFG: CSC (Full species)
<i>Chaetodipus</i> (=Perognathus) <i>fallax pallidus</i> Pallid San Diego pocket mouse	G4T3?S3?		FSC	DD	DFG: CSC (Full species)
+ <i>Dipodomys californicus eximus</i> Marysville California kangaroo rat	G5T1S1		FSC		DFG: CSC
+ <i>Dipodomys elephantinus</i> Big-eared kangaroo rat	G2G3S2				DFG: CSC
+ <i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat	G5THSH		FSC	VU/B1+2c	
+ <i>Dipodomys heermanni dixonii</i> Merced kangaroo rat	G5THSH		FSC		
+ <i>Dipodomys heermanni morroensis</i> Morro Bay kangaroo rat	G5T1S1	SE	FE	CR/B1+2c, D1	DFG: Fully protected

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
+ <i>Dipodomys ingens</i> Giant kangaroo rat	G3S3	SE	FE	CR/A1a	
<i>Dipodomys merriami collinsi</i> Earthquake Merriam's kangaroo rat	G5T2?S2?		FSC	DD	
+ <i>Dipodomys merriami parvus</i> San Bernardino Merriam's kangaroo rat	G5T1S1		FE	DD	DFG: CSC
+ <i>Dipodomys nitratoide brevinasus</i> Short-nosed kangaroo rat	G3T2?S2?		FSC		DFG: CSC
+ <i>Dipodomys nitratoide exilis</i> Fresno kangaroo rat	G3T1S1	SE	FE	CR/B1+2c	
+ <i>Dipodomys nitratoide nitratoide</i> Tipton kangaroo rat	G3T1S1	SE	FE	CR/A1c	
<i>Dipodomys panamintinus argusensis</i> Argus Mountains kangaroo rat	G5T3S3				
+ <i>Dipodomys panamintinus panamintinus</i> Panamint kangaroo rat	G5T3S3				
+ <i>Dipodomys stephensi</i> Stephens' kangaroo rat	G2S2	ST	FE	LRcd	
+ <i>Perognathus alticola alticola</i> White-eared pocket mouse	G2THSH		FSC	CR/B1+2b	DFG: CSC (Full species) FS: Sensitive
+ <i>Perognathus alticola inexpectatus</i> Telachapi pocket mouse	G2T1T2S1S2		FSC		DFG: CSC (Full species) FS: Sensitive
+ <i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	G4T2T3S2S3		FSC		
<i>Perognathus inornatus psammophilus</i> Salinas pocket mouse	G4QT2?S2?		FSC		DFG: CSC
<i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse	G5T2T3S2S3		FSC	DD	DFG: CSC
+ <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	G5T1?S1?		FSC	VU/B1+2c	DFG: CSC FS: Sensitive
<i>Perognathus longimembris internationalis</i> Jacumba pocket mouse	G5T3?S1S2		FSC	DD	DFG: CSC
+ <i>Perognathus longimembris pacificus</i> Pacific pocket mouse	G5T1S1		FE	CR/B1+2c, C1+2ab	DFG: CSC
<i>Perognathus longimembris salinensis</i> No common name	G5T1S1				
<i>Perognathus longimembris tularensis</i> No common name	G5T1S1				
<i>Perognathus xanthonotus</i> Yellow-eared pocket mouse	G1G2S1S2				
<b>CRICETIDAE (mice, rats, and voles)</b>					
+ <i>Arborimus albipes</i> White-footed vole	G4S2S3		FSC	DD	DFG: CSC
+ <i>Arborimus pomo</i> Red tree vole	G4S3		FSC	DD	DFG: CSC



	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<i>Microtus californicus halophilus</i> Monterey vole	G5T1S1				
+ <i>Microtus californicus mohavensis</i> Mohave River vole	G5T1S1		FSC	VU/A1d+2d, D2	DFG: CSC
+ <i>Microtus californicus sanpabloensis</i> San Pablo vole	G5T1T2S1S2				DFG: CSC
+ <i>Microtus californicus scirpensis</i> Amargosa vole	G5T1S1	SE	FE	VU/B1+3cd	
<i>Microtus californicus stephensi</i> Stephens' California vole	G5T1T2S1S2		FSC	DD	DFG: CSC
+ <i>Microtus californicus vallicola</i> Owens Valley vole	G5T1S1		FSC		DFG: CSC
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	G5T2T3S2S3		FSC	DD	DFG: CSC
+ <i>Neotoma fuscipes luciana</i> Monterey dusky-footed woodrat	G5T3?S3?		FSC	DD	DFG: CSC
+ <i>Neotoma fuscipes riparia</i> Riparian (=San Joaquin Valley) woodrat	G5T1S1		FPE	CR/B1+2c	DFG: CSC
+ <i>Neotoma lepida intermedia</i> San Diego desert woodrat	G5T3T4S3S4		FSC	DD	DFG: CSC
<i>Onychomys torridus ramona</i> Southern grasshopper mouse	G5T3T4S3S4		FSC	DD	DFG: CSC
+ <i>Onychomys torridus tularensis</i> Tulare grasshopper mouse	G5T1T2S1S2		FSC	DD	DFG: CSC
<i>Peromyscus maniculatus anacapae</i> Anacapa Island deer mouse	G5T1S1		FSC		DFG: CSC
<i>Peromyscus maniculatus clementis</i> San Clemente deer mouse	G5T1S1		FSC		DFG: CSC
+ <i>Reithrodontomys raviventris</i> Salt-marsh harvest mouse	G1G2S1S2	SE	FE	VU/A1c+2c	DFG: Fully protected
+ <i>Sigmodon arizonae plenus</i> Colorado River cotton rat	G3?T1SH		FSC	EN/A1c (Full species)	DFG: CSC
+ <i>Sigmodon hispidus eremicus</i> Yuma hispid cotton rat	G5T2S2		FSC		DFG: CSC

#### **ZAPODIDAE (jumping mice)**

<i>Zapus trinotatus orarius</i> Point Reyes jumping mouse	G5T2?QS2?		FSC	LRcd	DFG: CSC
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#### **CANIDAE (foxes, wolves, and coyotes)**

+ <i>Urocyon littoralis</i> Island fox	G1S1	ST	FSC	LRcd	
+ <i>Vulpes macrotis mutica</i> San Joaquin kit fox	G4T2T3S2S3	ST	FE		
+ <i>Vulpes vulpes necator</i> Sierra Nevada red fox	G4T2T3S1	ST	FSC		FS: Sensitive

	<u>NDDB RANKS</u>	<u>STATE</u>	<u>FEDERAL</u>	<u>IUCN</u>	<u>OTHER</u>
<b>MUSTELIDAE</b> (weasels and relatives)					
+ <i>Enhydra lutris nereis</i> Southern sea otter	G4T1S1		FT		DFG: Fully protected
+ <i>Gulo gulo luteus</i> California wolverine	G4T2S2	ST	FSC	VU/A2c	DFG: Fully protected FS: Sensitive
<i>Lutra canadensis sonora</i> Southwestern river otter	G5T3?S1?		FSC		DFG: CSC
+ <i>Martes americana</i> Pine marten	G5S3S4				FS: Sensitive
<i>Martes americana humboldtensis</i> Humboldt marten	G5T2T3S2S3				DFG: CSC FS: Sensitive (Full species)
+ <i>Martes pennanti pacifica</i> Pacific fisher	G3G4S2S3		FSC		DFG: CSC (Full species) FS: Sensitive
<i>Spilogale gracilis (=putorius) amphiala</i> Channel Islands spotted skunk	G5T3S3		FSC		DFG: CSC
+ <i>Taxidea taxus</i> American badger	G5S4				
<b>FELIDAE</b> (cats and relatives)					
<i>Felis concolor browni</i> Yuma mountain lion	G5T2?Q?S1		FSC		DFG: CSC
<b>OTARIDAE</b> (sea lions and fur seals)					
<i>Arctocephalus townsendi</i> Guadalupe fur seal	G1S1	ST	FT	VU/D2	DFG: Fully protected
<i>Callorhinus ursinus</i> Northern fur seal	G4?S1S2			VU/A1b	
+ <i>Eumetopias jubatus</i> (rookery) Northern (Steller) sea lion	G3S2		FT	EN/A1b	
<b>BOVIDAE</b> (sheep and relatives)					
+ <i>Ovis canadensis californiana</i> California (=Sierra) bighorn sheep	G4T1S1	SE	FE	LRcd	FS: Sensitive DFG: Fully protected
+ <i>Ovis canadensis crennobates</i> Peninsular bighorn sheep	G4T1S1	ST	FE	EN/C1+2a	DFG: Fully protected
+ <i>Ovis canadensis nelsoni</i> Nelson's (=Desert) bighorn sheep	G4T3S3			LRcd	

## APPENDIX 1

D-053248

## NDDB RANKS

NDDB ranks are a shorthand formula that provide information on the rarity of a species or subspecies, both throughout its global range and its range within the State. We use the best information available to assign these ranks and they are regularly updated as new information becomes available.

**GLOBAL RANKS:** worldwide status of a *full species*: G1 to G5

G1 = extremely endangered: <6 viable occurrences (EO's) or <1,000 individuals, or <2,000 acres of occupied habitat

G2 = endangered: about 6-20 EO's, or 1,000 - 3,000 individuals, or 2,000 to 10,000 acres of occupied habitat

G3 = restricted range, rare: about 21-100 EO's, or 3,000-10,000 individuals, or 10,000-50,000 acres of occupied habitat

G4 = apparently secure: some factors exist to cause some concern such as narrow habitat or continuing threats

G5 = demonstrably secure: commonly found throughout its historic range

**STATE RANKS:** statewide status of a *full species or a subspecies*: S1 to S5

same general definitions as global ranks, but just for the range of the taxa within California.

**T- RANKS:** status of a *subspecies*: T1 to T5

A subspecies is given a T-rank. This is attached to the G-rank for the full species. The S-rank, in this case, will refer to the status of the subspecies within California. The T-rank has the same general definitions as the global ranks.

### EXAMPLES:

Salt-marsh harvest mouse (*Reithrodontomys raviventris*) - **G1S1**

**G1** - *Reithrodontomys raviventris* is extremely endangered throughout its worldwide range.

**S1** - It is a California endemic, therefore its range within the state is the same as its worldwide range.

Yuma clapper rail (*Rallus longirostris yumanensis*) - **G5T3S1**

**G5** - *Rallus longirostris* is common in North American coastal salt marshes and the range extends down into South America.

**T3** - *R. l. yumanensis* is rare and has a restricted range within in Mexico, Arizona, and California.

**S1** - This subspecies is extremely endangered within California

Santa Cruz long-toed salamander (*Ambystoma macrodactylum crocum*) - **G5T1S1**

**G5** - *Ambystoma macrodactylum* is found throughout the Pacific northwest.

**T1** - The subspecies *A. m. crocum* is found only in California and is extremely endangered throughout its range.

**S1** - This subspecies is extremely endangered within California.

### OTHER NOTATIONS:

G1G3 - proper rank is most likely within this range of ranks

G2? - proper rank is probably G2

G? - we don't have enough information to rank it

GH - all sites are historical; this species has not been seen in at least 20 years but no hard evidence of extinction.

GX - species is extinct (SX = it is extirpated from California)

GXC - the species is extinct in the wild, but it exists in cultivation.

G2Q - the species is endangered but there is a taxonomic question about the species.

11/97

## APPENDIX 2

D-053250



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## Threatened Animals of the World

### IUCN Red List Categories

The text below gives summary definitions of the categories in the new system.

**EXTINCT (EX)** A taxon is Extinct when there is no reasonable doubt that the last individual has died.

**EXTINCT IN THE WILD (EW)** A taxon is Extinct in the wild when it is known only to survive in cultivation, in captivity or as a naturalised population (or populations) well outside the past range. A taxon is presumed extinct in the wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

**CRITICALLY ENDANGERED (CR)** A taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future, as defined by any of the criteria A to E.

**ENDANGERED (EN)** A taxon is Endangered when it is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future, as defined by any of the criteria A to E.

**VULNERABLE (VU)** A taxon is Vulnerable when it is not Critically Endangered or Endangered but is facing a high risk of extinction in the wild in the medium-term future, as defined by any of the criteria A to E.

**LOWER RISK (LR)** A taxon is Lower Risk when it has been evaluated, but does not satisfy the criteria for any of the categories Critically Endangered, Endangered or Vulnerable. Taxa included in the Lower Risk category can be separated into three subcategories:

1. Conservation Dependent (cd). Taxa which are the focus of a continuing taxon-specific or habitat-specific conservation programme targeted towards the taxon in question, the cessation of which would result in the taxon qualifying for one of the threatened categories above within a period of five years.
2. Near Threatened (nt). Taxa which do not qualify for Conservation Dependent,

but which are close to qualifying for Vulnerable.

3. Least Concern (lc). Taxa which do not qualify for Conservation Dependent or Near Threatened.

**DATA DEFICIENT (DD)** A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat or Lower Risk. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and threatened status. If the range of a taxon is suspected to be relatively circumscribed, if a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.

**NOT EVALUATED (NE)** A taxon is Not Evaluated when it has not yet been assessed against the criteria.

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Document URL: <http://www.wcmc.org.uk/species/animals/categories.html>

Revision date: Thursday, 20-Mar-97 12:24:25 GMT

Current date: 12-November-1997

*late news!*  
Coral Reef & Mangrove  
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# Threatened Animals of the World

## The Criteria for Critically Endangered, Endangered and Vulnerable

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### The Criteria for Critically Endangered

#### CRITICALLY ENDANGERED (CR)

A taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future, as defined by any of the following criteria (A to E):

A) Population reduction in the form of either of the following:

1) An observed, estimated, inferred or suspected reduction of at least 80% over the last 10 years or three generations, whichever is the longer, based on (and specifying) any of the following:

- a) direct observation
- b) an index of abundance appropriate for the taxon
- c) a decline in area of occupancy, extent of occurrence and/or quality of habitat
- d) actual or potential levels of exploitation
- e) the effects of introduced taxa, hybridisation, pathogens, pollutants, competitors or parasites.

2) A reduction of at least 80%, projected or suspected to be met within the next ten years or three generations, whichever is the longer, based on (and specifying) any of (b), (c), (d) or (e) above.

B) Extent of occurrence estimated to be less than 100 km<sup>2</sup> or area of occupancy estimated to be less than 10 km<sup>2</sup>, and estimates indicating any two of the following:

- 1) Severely fragmented or known to exist at only a single location.



2) Continuing decline, observed, inferred or projected, in any of the following:

- a) extent of occurrence
- b) area of occupancy
- c) area, extent and/or quality of habitat
- d) number of locations or subpopulations
- e) number of mature individuals.

3) Extreme fluctuations in any of the following:

- a) extent of occurrence
- b) area of occupancy
- c) number of locations or subpopulations
- d) number of mature individuals.

C) Population estimated to number less than 250 mature individuals and either:

- 1) An estimated continuing decline of at least 25% within 3 years or one generation, whichever is longer or
- 2) A continuing decline, observed, projected, or inferred, in numbers of mature individuals and population structure in the form of either:
  - a) severely fragmented (i.e. no subpopulation estimated to contain more than 50 mature individuals)
  - b) all individuals are in a single subpopulation.

D) Population estimated to number less than 50 mature individuals.

E) Quantitative analysis showing the probability of extinction in the wild is at least 50% within 10 years or 3 generations, whichever is the longer.

## **The Criteria for Endangered**

### **ENDANGERED (EN)**

A taxon is Endangered when it is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future, as defined by any of the following criteria (A to E):

A) Population reduction in the form of either of the following:

- 1) An observed, estimated, inferred or suspected reduction of at least 50% over the last 10 years or three generations, whichever is the longer, based on (and specifying) any of the following:
  - a) direct observation

- b) an index of abundance appropriate for the taxon
- c) a decline in area of occupancy, extent of occurrence and/or quality of habitat
- d) actual or potential levels of exploitation
- e) the effects of introduced taxa, hybridisation, pathogens, pollutants, competitors or parasites.

2) A reduction of at least 50%, projected or suspected to be met within the next ten years or three generations, whichever is the longer, based on (and specifying) any of (b), (c), (d), or (e) above.

B) Extent of occurrence estimated to be less than 5000 km<sup>2</sup> or area of occupancy estimated to be less than 500 km<sup>2</sup>, and estimates indicating any two of the following:

1) Severely fragmented or known to exist at no more than five locations.

2) Continuing decline, inferred, observed or projected, in any of the following:

- a) extent of occurrence
- b) area of occupancy
- c) area, extent and/or quality of habitat
- d) number of locations or subpopulations
- e) number of mature individuals.

3) Extreme fluctuations in any of the following:

- a) extent of occurrence
- b) area of occupancy
- c) number of locations or subpopulations
- d) number of mature individuals.

C) Population estimated to number less than 2500 mature individuals and either:

1) An estimated continuing decline of at least 20% within 5 years or 2 generations, whichever is longer, or

2) A continuing decline, observed, projected, or inferred, in numbers of mature individuals and population structure in the form of either:

- a) severely fragmented (i.e. no subpopulation estimated to contain more than 250 mature individuals)
- b) all individuals are in a single subpopulation.

D) Population estimated to number less than 250 mature individuals.

E) Quantitative analysis showing the probability of extinction in the wild is at least

20% within 20 years or 5 generations, whichever is the longer.

## **The Criteria for Vulnerable**

### **VULNERABLE (VU)**

A taxon is Vulnerable when it is not Critically Endangered or Endangered but is facing a high risk of extinction in the wild in the medium-term future, as defined by any of the following criteria (A to E):

#### **A) Population reduction in the form of either of the following:**

- 1) An observed, estimated, inferred or suspected reduction of at least 20% over the last 10 years or three generations, whichever is the longer,, based on (and specifying) any of the following:
  - a) direct observation
  - b) an index of abundance appropriate for the taxon
  - c) a decline in area of occupancy, extent of occurrence and/or quality of habitat
  - d) actual or potential levels of exploitation
  - e) the effects of introduced taxa, hybridisation, pathogens, pollutants, competitors or parasites.
- 2) A reduction of at least 20%, projected or suspected to be met within the next ten years or three generations, whichever is the longer, based on (and specifying) any of (b), (c), (d) or (e) above.

#### **B) Extent of occurrence estimated to be less than 20,000 km<sup>2</sup> or area of occupancy estimated to be less than 2000 km<sup>2</sup>, and estimates indicating any two of the following:**

- 1) Severely fragmented or known to exist at no more than ten locations.
- 2) Continuing decline, inferred, observed or projected, in any of the following:
  - a) extent of occurrence
  - b) area of occupancy
  - c) area, extent and/or quality of habitat
  - d) number of locations or subpopulations
  - e) number of mature individuals.

#### **3) Extreme fluctuations in any of the following:**

- a) extent of occurrence
- b) area of occupancy
- c) number of locations or subpopulations
- d) number of mature individuals.

#### **C) Population estimated to number less than 10,000 mature individuals and either:**

1) An estimated continuing decline of at least 10% within 10 years or 3 generations, whichever is longer, or

2) A continuing decline, observed, projected, or inferred, in numbers of mature individuals and population structure in the form of either:

a) severely fragmented (i.e. no subpopulation estimated to contain more than 1000 mature individuals)

b) all individuals are in a single subpopulation.

D) Population very small or restricted in the form of either of the following:

1) Population estimated to number less than 1000 mature individuals.

2) Population is characterised by an acute restriction in its area of occupancy (typically less than 100 km<sup>2</sup>) or in the number of locations (typically less than 5). Such a taxon would thus be prone to the effects of human activities (or stochastic events whose impact is increased by human activities) within a very short period of time in an unforeseeable future, and is thus capable of becoming Critically Endangered or even Extinct in a very short period.

E) Quantitative analysis showing the probability of extinction in the wild is at least 10% within 100 years.



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## Threatened Animals of the World

The criteria (A-D) provide relative assessments of trends in the population status of species across many life forms. However, it is recognised that these criteria do not always lead to equally robust assessments of extinction risk, which depend upon the life history of the species. The quantitative criterion (A1a, b, d) for the threatened categories may not be appropriate for assessing the risk of extinction for some species, particularly those with high reproductive potential, fast growth and broad geographic ranges. Many of these species have high potential for population maintenance under high levels of mortality, and such species might form the basis for fisheries.

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**Document URL:** <http://www.wcmc.org.uk/species/animals/caveat-info.html>

**Revision date:** Thursday, 17-Oct-96 16:42:36 BST

**Current date:** 12-November-1997

*Late news!*  
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## APPENDIX 3

D-053259

## SPECIES OF SPECIAL CONCERN REPORTS

Jennings, M. R. and M. P. Hayes. 1994. Amphibian and Reptile Species of Special Concern in California. Final Report submitted to the Department of Fish and Game Inland Fisheries Division under contract No. 8023. 255 pp.

*The status of 80 amphibian and reptile taxa was reviewed. Individual accounts are presented for 48 declining taxa in need of some level of protection. This report is available for \$20.00 plus tax and shipping. Call Information Services at (916) 324-0563*

Moyle, P. B., R. M. Yoshiyama, J. E. Williams, & E. D. Wikramanayake. 1995. Fish Species of Special Concern in California. Final Report submitted to the Department of Fish and Game Inland Fisheries Division under contract No. 2128IF. 272 pp.

*This report is a second edition. It treats 54 taxa of native fish and gives detailed accounts for 49 taxa. This report is available for \$16.00 plus tax and shipping. Call Information Services at (916) 324-0563.*

Remsen, J. V. Jr. 1978. Bird Species of Special Concern in California, An Annotated List of Declining or Vulnerable Bird Species. Wildlife Management Branch Administrative Report No. 78-1. 54 pp.

*This was the first species of special concern report produced. Of the 61 taxa presented, 11 are now state and/or federally listed. This report is out of print.; a new bird species of special concern report is currently in preparation.*

Williams, D. F. 1986. Mammalian Species of Special Concern in California. Wildlife Management Division Administrative Report 86-1. 112 pp.

*Of the 36 taxa presented, 4 are now state and/or federally listed, and another is proposed for federal listing. This report is now out of print; a new mammalian species of special concern report is currently in preparation.*

## APPENDIX 4

D-053261



## OTHER DATABASES

California Wildlife Habitat Relationships (CWHR): A computerized information system and predictive model for 675 of California's amphibians, reptiles, birds, and mammals. It contains information on taxonomy, legal status, geographic distribution, and habitat relationships. It can be used for activities involving wildlife species and habitat management, impact assessment, biodiversity conservation, and land use planning. Version 7.0 software comes compiled in visual dbase on CD-ROM for use in Windows 95, 98 or NT environments. This database is available for sale. For more information contact Monica Parisi, at (916) 327-8822.

Habitat Conservation Division Databases: The Bay-Delta Branch makes available on their web site the results of some of their research projects. Their web address is:  
<http://www.delta.dfg.ca.gov/>

SPECIES	DATA TYPE
Splittail <i>Pogonichthys macrolepidotus</i>	Abundance and distribution data
Spring-run chinook salmon <i>Oncorhynchus tshawytscha</i>	1997 Monitoring results
Delta smelt <i>Hypomesus transpacificus</i>	Survey results